

To: All prospective offerors for the GOES-R Program Definition and Risk Reduction (PDRR) contract(s)

SUBJECT: GOES-R PDRR Request For Proposal Number DG133E-05-RP-1034

Dear Sir/Madam:

The National Oceanic and Atmospheric Administration (NOAA) is pleased to issue the enclosed Request For Proposal (RFP) Number DG133E-05-RP-1034. This RFP outlines a need for program definition and risk reduction studies sufficient to advance the GOES-R program to the Acquisition and Operations phase.

The RFP is divided into several sections (A through M), plus an exhibit and attachments. Please carefully review each section and fill in all information as requested. Section L provides specific instructions for preparing and submitting your proposal. Proposals will be evaluated in accordance with the criteria outlined in Section M.

Draft versions of this RFP were previously announced in FEDBIZOPs and posted on the GOES-R webpage <http://osd.goes.noaa.gov/index.php>. The comments received from industry relative to these drafts have been extremely useful in developing this final version. As a result of this thoughtful exchange, it is contemplated that most issues have been addressed. Nevertheless, if there are any further questions, please feel free to submit them to the undersigned contracting officer at Robert.ransom@noaa.gov. In order to provide timely consideration, questions should be submitted before April 6, 2005.

At this time, the Government has finalized the RFP including all exhibits and attachments, and is enclosed herewith. The finalized RFP and all exhibits/attachments are also available at <http://osd.goes.noaa.gov/index.php>. Up to three, Firm Fixed Price awards are contemplated. Each award will reflect a 6 month basic effort to conduct work leading up to a System Requirements Review (SRR). The awards will also contain an option to acquire an additional 6-months of services leading up to a System Concept Review (SCR), and another option for an additional 10-months of services culminating with the conduct of an Interim Preliminary Design Review (IPDR). The combined total period of performance, if all options are exercised, will be 22 months. All responsible sources are invited to submit an offer in accordance with the terms and conditions of the RFP.

Proposals are due no later than the date and time identified on the cover page of the enclosed RFP. The place designated for receipt of proposals is also identified in the RFP.

Thank you, in advance, for your interest in the programs of the National Oceanic and Atmospheric Administration. Should you have any questions, please feel free to contact the undersigned contracting officer at (301) 713-9414 x159.

Sincerely,

/s/

Robert E. Ransom
Contracting Officer

Enclosure

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SOLICITATION, OFFER AND AWARD		1. This Contract is a Rated Order Under DPAS (15 CFR 350)		Rating	Page 1 of pages 48
2. Contract No.	3. Solicitation No. DG133E-05-RP-1034	4. Solicitation Type <input type="checkbox"/> Sealed Bid (IFB) <input checked="" type="checkbox"/> Negotiated (RFP)	5. Date Issued 03/22/2005	6. Requisition/Purchase No. NE-EK0000-5-0033	
7. Issued By NESDIS HQTR Route: E/OSD ROBERT E. RANSOM BLDG: SSMC1 RM: 6213 1335 EAST WEST HWY SILVER SPRING MD 20910-3283		Code AJF40012		8. Address Offer To (If other than item 7) ROBERT E. RANSOM NESDIS HQTR Route: E/OSD BLDG: SSMC1 RM: 6213 1335 EAST WEST HWY SILVER SPRING MD 20910-3283	

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

SOLICITATION

9. Sealed offers in original and 6 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in Block 8 until 03:00 PM (hour) local time May 10, 2005 (date).

CAUTION – LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

10. For Information Call:	A. Name Robert E. Ransom, Contracting Officer	B. Telephone No. (include area code) (NO COLLECT CALLS) 301-713-9414 x168 (Mary M. Petruzzo)
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OFFER (Must be fully completed by offeror)

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the data for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.				
13. Discount for Prompt Payment (See Section I, Clause No. 52.232-8)	10 Calendar Days %	20 Calendar Days %	30 Calendar Days %	_____ Calendar Days %
14. Acknowledgment of Amendments <i>The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated.</i>	Amendment No.	Date	Amendment No.	Date
15A. Name and Address of Offeror	Code	Facility	16. Name and Title of Person Authorized to Sign Offer (Type or print)	
15B. Telephone No. (Include area code)	15C. Check if Remittance Address is difference from above. Enter such address in Schedule.		17. Signature	18. Offer Date

AWARD (To be completed by Government)

19. Accepted as to Items Numbered	20. Amount	21. Accounting and Appropriation	
22. Authority for Using Other Than Full and Open Competition: <input type="checkbox"/> 10 U.S.C. 2304 (c)() <input type="checkbox"/> 41 U.S.C. 253 (c)()		23. Submit Invoices to Address Shown in (4 copies unless otherwise specified)	Item
24. Administered By (If other than Item 7) Code		Payment Will be Made By Code	
26. Name of Contracting Officer (Type or print)		27. United States of America (Signature of Contracting Officer)	28. Award Date

IMPORTANT – Award will be made on this form, or on Standard Form 26, or by other authorized official written notice.

Supplies or Services and Prices/Costs

Item No.	Supplies/Services	Quantity	Unit	Unit Price	Amount
0100	<p>BASIC EFFORT - System Requirements Review (SRR) Firm-Fixed-Price The contractor shall demonstrate and validate critical design issues, including risk reduction, by conducting Cost-As-an-Independent-Variable (CAIV) trades (cost/performance and performance/performance), developing draft GOES-R system description documents, initiating process and product demonstrations, culminating with the delivery and conduct of a <u>System Requirements Review (SRR)</u>, and maturing the total system design towards the Preliminary Design Review (PDR) level, in accordance with the Integrated Master Plan (IMP) attached to this contract. Period of Performance: 6 months after effective date of contract</p> <p>OPTION 1 - System Concept Review (SCR) Firm-Fixed-Price The contractor shall demonstrate and validate critical design issues, including risk reduction, by conducting Cost-As-an-Independent-Variable (CAIV) trades (cost/performance and performance/performance), developing draft GOES-R system description documents, initiating process and product demonstrations, culminating with the delivery and conduct of a <u>System Concept Review (SCR)</u>, and maturing the total system design towards the Preliminary Design Review (PDR) level, in accordance with the Integrated Master Plan (IMP) attached to this contract. Period of Performance: 6 months after effective date of option If this option is exercised, the CLIN 0100 price will be increased by \$(*).</p> <p>OPTION 2 - Interim Preliminary Design Review (IPDR) Firm-Fixed-Price The contractor shall demonstrate and validate critical design issues, including risk reduction, by conducting Cost-As-an-Independent-Variable (CAIV) trades (cost/performance and performance/performance), developing draft GOES-R system description documents, initiating process and product demonstrations, culminating with the delivery and conduct of an <u>Interim Preliminary Design Review (IPDR)</u>, and maturing the total system design towards the Preliminary Design Review (PDR) level, in accordance with the Integrated Master Plan (IMP) attached to this contract. Period of Performance: 10 months after effective date of option If this option is exercised, the CLIN 0100 price will be increased by \$(*).</p> <p>(*) Offeror fill-in LO = LOT</p> <p>Accounting and appropriation data: 1405C2NS19GP6132050301001400900000000000025270000</p>	1	LO		
0200	<p>DATA AND REPORTS Contract type: FIRM FIXED PRICE Inspection: DESTINATION Acceptance: DESTINATION FOB: DESTINATION</p> <p>The contractor shall deliver all data and reports resulting from CLIN 0100 in accordance with Exhibit A, Contract Data Requirements List (CDRL) DD 1423 dated (*) attached hereto and made a part hereof. The price for this item is included in 0100.</p> <p>(*) Offeror Fill-In NSP = NOT SEPARATELY PRICED LO = LOT</p>	1	LO	NSP	NSP

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B.1 1352.216-70 CONTRACT TYPE

This is a Firm Fixed Price type contract for Research and Development services. It consists of a basic requirement plus two options to acquire additional services.

SECTION C
DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 1352.237-71 SECURITY PROCESSING REQUIREMENTS FOR CONTRACTOR/SUBCONTRACTOR PERSONNEL WORKING ON A DEPARTMENT OF COMMERCE SITE (HIGH RISK CONTRACTS) (MARCH 2000)

a. Security Processing Requirement

All contractor (and subcontractor) personnel proposed to work on the premises of a Department of Commerce site under this contract must undergo security processing by the Department's Office of Security (OSY) before he or she is eligible to work on the premises of the Herbert C. Hoover (HCH) Building or other buildings used for Department operations.

b. Additional Requirements for Foreign Nationals (Non-U.S. Citizens) Non-U.S. citizens to be employed under this contract must:

- (1) Have legal visa status with the Immigration and Naturalization Service (INS);
- (2) Have advance approval from the servicing Security Officer in consultation with the Office of Security. (The Office of Security routinely consults with appropriate agencies regarding the use of non-U.S. citizens on contracts and can provide up-to-date information concerning this matter.)

c. Submittal Requirements

The Contractor must complete and submit the following forms to the Contracting Officer's Technical Representative (COTR), who will review and forward them to the cognizant Security Officer.

- (1) Standard Form 85P (SF-85P)--Questionnaire for Public Trust Positions
- (2) Form FD-258 (Fingerprint Chart with OPM ORI number)

Upon completion of the security processing, OSY, through the Security Office and the COTR, will notify the Contractor in writing of the individual's eligibility to be given access to the HCH Building or other DOC buildings. Security Processing shall consist of limited personal background inquiries pertaining to verification of name, physical description, marital status, present and former residences, education, employment history, criminal record, personal references, medical fitness, fingerprint classification, and other pertinent information. It is the option of OSY to repeat the security processing on any contract employee at its discretion.

d. Notification of Disqualifying Information

If OSY receives disqualifying information on a contract employee, the Contractor, upon notification of such, must immediately remove the employee from duties which require access to DOC facilities.

Individuals may be barred from working on the premises of a facility for any of the following:

- (1) Conviction of a felony or a crime of violence or of a misdemeanor involving moral turpitude.
- (2) Falsification of information entered on security screening forms or on other documents submitted to the Department.
- (3) Improper conduct once performing on the contract, including criminal, infamous, dishonest, immoral, or notoriously disgraceful conduct or other conduct prejudicial to the Government regardless of whether the conduct directly related to the contract.
- (4) Any behavior judged to pose a potential threat to departmental personnel or property.

Failure to comply with the requirements may result in termination of this contract, or removal of some contracted employees from DOC facilities. Compliance with these requirements shall not be construed as providing a contract employee clearance to have access to classified information.

C.2 WORK DESCRIPTION

The Integrated Master Plan (IMP) constitutes the work description for this contract. It is hereby incorporated as Attachment 2.

	Pages	Date
Integrated Master Plan	(*)	(*)

(*) Offeror Fill-In

C.3 1352.211-70 STATEMENT OF WORK

The Contractor shall furnish the necessary personnel, material, equipment, services and facilities (except as otherwise specified) to meet the requirement of the Statement of Objectives (SOO) dated March 17, 2005 and set forth in Attachment 1.

SECTION E
INSPECTION AND ACCEPTANCE

E.1 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):
<http://www.arnet.gov/far/> AND http://oam.ocs.doc.gov/capps_car.html
(End of clause)

E.2 52.246-9 INSPECTION OF RESEARCH AND DEVELOPMENT (SHORT FORM) (APR 1984)

(Reference 46.309)

E.3 52.246-16 RESPONSIBILITY FOR SUPPLIES (APR 1984)

(Reference 46.316)

E.4 1352.246-70 INSPECTION AND ACCEPTANCE (MARCH 2000)

The Contracting Officer or the duly authorized representative will perform inspection and acceptance of supplies and services to be provided under this contract. Inspection and acceptance will be performed at:
GOES-R PROGRAM OFFICE

E.5 METHOD OF SUBMISSION

All deliverables shall be submitted with a cover letter addressed to the Contracting Officer's Technical Representative (COTR) with a copy to the Contracting Officer. The cover letter shall identify the contract number, the title of the deliverable, a brief description of the deliverable, the date it was due, and the date it was submitted. The cover letter shall be signed by an authorized representative of the contractor, and shall affirm that it conforms to all stated specifications. At the bottom of the cover letter, the contractor shall affix a signature block for the COTR's signature. The signature block should include a space for a signature and date. It should also provide two options for the COTR to check as follows:

☐ Accepted as submitted
☐ Returned for revision

To ensure priority processing, the cover letter should be submitted on yellow paper. Once the COTR affixes his/her signature, a copy of the cover letter will be returned to the contractor and the original retained by the Contracting Officer.

SECTION F
DELIVERIES OR PERFORMANCE

F.1 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <http://www.arnet.gov/far/> AND http://oam.ocs.doc.gov/capps_car.html
(End of clause)

F.2 52.242-15 STOP-WORK ORDER (AUG 1989)
(Reference)

F.3 52.242-17 GOVERNMENT DELAY OF WORK (APR 1984)
(Reference)

F.4 52.247-34 F.O.B. DESTINATION (NOV 1991)
(Reference 47.303-6)

F.5 1352.215-70 PERIOD OF PERFORMANCE

(a) The period of performance of this contract is from date of award for a six (6) month period. If an option is exercised, the period of performance shall be extended through the end of that option period.

(b) The option periods that may be exercised are as follows:

Period	Start Date	End Date
Option I	Within six (6) months after effective date of contract	Within twelve (12) months after effective date of contract
Option II	Within twelve (12) months after effective date of contract	Within twenty-two (22) months after effective date of contract

F.6 OPTION PRICES

If the Government exercises its right to extend the term of this contract, as set forth in FAR 52.217-9, the Firm Fixed Prices identified in the schedule for that option period shall apply.

F.7 DELIVERY SCHEDULE

Work product and corresponding delivery schedules are identified in the Contract Data Requirements List (CDRL) as set forth in Exhibit A.

SECTION G
CONTRACT ADMINISTRATION DATA

G.1 1352.201-70 CONTRACTING OFFICER'S AUTHORITY (MARCH 2000)

The Contracting Officer is the only person authorized to make or approve any changes in any of the requirements of this contract and notwithstanding any provisions contained elsewhere in this contract, the said authority remains solely in the Contracting Officer. In the event the Contractor makes any changes at the direction of any person other than the Contracting Officer, the change will be considered to have been made without authority and no adjustment will be made in the contract terms and conditions, including price.

G.2 1352.201-71 CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR) (MARCH 2000)

(a) (*) is hereby designated as the Contracting Officer's Technical Representative (COTR). The COTR may be changed at any time by the Government without prior notice to the Contractor by a unilateral modification to the Contract. The COTR is located at: (*)

(1) The COTR is responsible for the technical aspects of the project and serves as technical liaison with the Contractor. The COTR is also responsible for the final inspection and acceptance of all reports and such other responsibilities as may be specified in the contract.

(2) The COTR is not authorized to make any commitments or otherwise obligate the Government or authorize any changes which affect the Contract price, terms or conditions. Any Contractor request for changes shall be referred to the Contracting Officer directly or through the COTR. No such changes shall be made without the expressed prior authorization of the Contracting Officer.

(*) To be identified by the Contracting Officer in writing following contract award.

SECTION H
SPECIAL CONTRACT REQUIREMENTS

H.1 1352.208-70 PRINTING (MARCH 2000)

Unless otherwise specified in this contract, the Contractor shall not engage in, or subcontract for, any printing (as that term is defined in Title I of the Government Printing and Binding Regulations in effect on the effective date of this contract) in connection with performing under this contract. Provided, however, that performing a requirement under this contract involving the duplicating of less than 5,000 units of only one page, or less than 25,000 units in the aggregate of multiple pages, such pages are not exceeding a maximum image size of 10 and 3/4 inches by 14 and 1/4 inches, will not be deemed printing.

H.2 1352.209-71 ORGANIZATIONAL CONFLICT OF INTEREST (OCI) (MARCH 2000)

(a) The Contractor warrants that, to the best of the Contractor's knowledge and belief, there are no relevant facts or circumstances which would give rise to an organizational conflict of interest, as defined in FAR Subpart 9.5, or that the Contractor has disclosed all such relevant information and instituted a plan that mitigates the OCI.

(b) The Contractor agrees that if an actual or potential organizational conflict of interest is discovered after award, the Contractor will make a full disclosure in writing to the Contracting Officer. This disclosure shall include a description of actions which the Contractor has taken or proposes to take, after consultation with the Contracting Officer, to avoid, mitigate, or neutralize the actual or potential conflict.

(c) Remedies - The Contracting Officer may terminate this contract for convenience, in whole or in part, if it deems such termination necessary to avoid an organizational conflict of interest. If the Contractor was aware of a potential organizational conflict of interest prior to award or discovered an actual or potential conflict after award and did not disclose or misrepresented relevant information to the Contracting Officer, the Government may terminate the contract for default, debar the Contractor from Government contracting, or pursue such other remedies as may be permitted by law or this contract.

(d) The Contractor further agrees to insert provisions which shall conform substantially to the language of this clause, including this paragraph (d), in any subcontract or consultant agreement hereunder.

H.3 PAYMENT SCHEDULE

If a Performance Based Payment schedule is identified in Attachment 5 of this contract, then FAR 52.232-16 "Progress Payments" does not apply unless otherwise stated in the Performance Based Payment Schedule.

H.4 1352.209-73 COMPLIANCE WITH THE LAWS (MARCH 2000)

The Contractor shall comply with all applicable laws and rules and regulations having the force of law which deal with or relate to performance hereunder or the employment by the Contractor of the employees.

H.5 1352.233-70 HARMLESS FROM LIABILITY (MARCH 2000)

The Contractor shall hold and save the Government, its officers, agents, and employees harmless from liability of any nature or kind, including costs and expenses to which they may be subject to or on account of any or all suits or damages of any character whatsoever resulting from injuries or damages sustained by any person or persons or property by virtue of performance of this contract, arising or resulting in whole or in part from the fault, negligence, wrongful act or wrongful omission of the contractor, or any subcontractor, their employees, and agents.

H.6 GUARANTEED FINAL REPORT

If this contract is terminated prior to completion, the Contractor agrees to provide a final report in accordance with Exhibit A, CDRL A031 (*).

(*) Offeror to revise CDRL number if necessary

H.7 GOVERNMENT DIRECTION & INSIGHT

(a) During performance of this contract, Government personnel (and its support contractors) may frequently be present at the Contractor's plant and have other contacts with contractor personnel. Additionally, the Contractor will be required to interact and cooperate with persons supporting various Government working groups. These Government personnel (and its support contractors) will advise the Contractor, review designs, and provide insight or clarifications from time to time; however, these personnel will not approve or disapprove designs and the Contractor shall not construe any insight or clarifications provided by these persons as direction.

(b) The presence and participation of Government officials at a review or other forum does not indicate Government acceptance or concurrence on any matter discussed at that setting, and does not in any way relieve the Contractor of responsibility for performance under this contract.

SECTION H
SPECIAL CONTRACT REQUIREMENTS

(c) The Contracting Officer shall be the only individual authorized to direct or redirect the effort or in any way modify any terms of this contract. The Contractor shall not rely on any direction or instruction from any other Government team member that is contrary to the contract or that increases or decreases the scope or price of the contract. Insight, clarification, and information provided to the Contractor by other members of the Government team is provided for the Contractor's benefit and use as it sees fit to accomplish its responsibilities under this contract.

H.8 DOWN-SELECT APPROACH

(a) The Government's down-select approach contemplates that continued development and production of the GOES-R System into the Acquisition and Operations (A&O) phase will be performed by a contractor awarded a contract in response to this PDRR solicitation DG133E-05-RP-1034. However, the Government intends to consider all proposals submitted in response to the A&O Request for Proposals (RFP) which may be issued shortly before a Government-controlled Key Decision Point (tentatively scheduled for November 2006). That RFP will solicit competitive proposals for the A&O phase including a Contractor Work Breakdown Structure (CWBS), System Specification, Interface Control Documents, Integrated Management Plan (IMP), Integrated Master Schedule (IMS), Contract Data Requirements Lists (CDRLs), and other documents as appropriate. Proposal costs in response to the future RFP shall not be allowed as direct charges to this contract.

(b) The Government reserves the right not to down-select at all, and it reserves the right to revise these down-select procedures at any time prior to award of the A&O phase contract.

(c) The evaluation criteria and procedures for the A&O phase acquisition will be outlined in the future RFP. Although not necessarily the determinative factor, cost or price will contribute significantly to the down-selection. Any firm not awarded a contract under this solicitation DG133E-05-RP-1034 which desires to compete for the projected future A&O phase contract will be permitted to do so. Such a firm will be required to demonstrate a level of system maturity at least equivalent to the level to be attained under the contract(s) awarded under this solicitation at the time the RFP for the A&O phase acquisition is released. Such a firm will be required to submit data equivalent to the System Requirements Review (SRR), System Concept Review (SCR), and Interim Preliminary Design Review (IPDR) deliverables required under the contract(s) resulting from this PDRR solicitation and to provide, at no expense to the Government, a system review at the IPDR level of maturity responsive to PDRR solicitation. The Contracting Officer will provide specific submittal data and timeframes upon request.

H.9 ENABLING CLAUSE FOR CONTRACTOR

(a) The Government has entered into contracts with The Aerospace Corp., BAE Systems Information Technology, Mitre Corp., Integrity Applications Inc. (IAI), General Dynamics Advanced Information Systems, MIT Lincoln Laboratory, Tecolote Research Corporation, Mitretek Systems, Swales Aerospace, Chesapeake Aerospace, QSS Group Inc., Hammers Co., Honeywell Technology Solutions Inc, SGT Inc, and Muniz Engineering Inc. (MEI) for acquisition support services and general systems engineering and integration.

(b) General systems engineering and integration deals with overall system definition; integration both within the system and with associated systems; analysis of system segment and subsystem design; design compromises and trade-offs; definition of interfaces; review of hardware and software including manufacturing and quality control; observation, review and evaluation of tests and test data; support of launch, flight test, and orbital operations; appraisal of the Contractors' technical performance, through meeting with contractors and subcontractors, exchange and analysis of information on progress and problems, review of plans for future work; developing of solutions to problems, technical alternatives for reduced program risk, providing comments and recommendations in writing to the Government System Program Director as an independent technical assessment for consideration for modifying the program or redirecting the Contractor's efforts; all to the extent necessary to assure timely and economical accomplishment of program objectives consistent with mission requirements.

(c) In the performance of this contract, the Contractor agrees to cooperate with the Government support contractors by responding to invitations from authorized personnel to attend meetings; by providing access to technical information and research, development and planning data such as, but not limited to, design and development analyses; test data and results; equipment and process specifications; test and test equipment specifications and procedures, parts and quality control procedures, records and data; manufacturing and assembly procedures; and schedule and milestone data, all in their original form or reproduced from and excluding financial data; by delivering data as specified in the Contract Data Requirements List (CDRL); by discussing technical matters relating to this program; by providing access to contractor facilities utilized in the performance of this contract; and by allowing observation of technical activities by appropriate personnel. Government support contractor personnel supporting this acquisition are authorized access to any technical information pertaining to this contract.

(d) The Contractor further agrees to include in each subcontract a clause requiring compliance by the subcontractor and succeeding levels of subcontractors with the response and access provisions of paragraph (c) above, subject to coordination with the Contractor. This agreement does not relieve the Contractor of its responsibility to manage its subcontracts effectively and efficiently nor is it intended to establish privity of contract between the Contractor or its subcontractors and the Government or its support contractors.

SECTION H
SPECIAL CONTRACT REQUIREMENTS

(e) Government support contractor personnel are not authorized to direct the Contractor in any manner.

H.10 HANDLING OF DATA

(a) In the performance of this contract, it is anticipated that the Contractor may have access to, be furnished, or use data in the following categories (which may be technical data, computer software, administrative data, management information, or financial data (incl. cost or pricing data)):

- (1) Data of third parties which the Government has agreed to handle under protective arrangements; and
- (2) Government data, the use or dissemination of which the Government intends to control.

(b) In order to protect the interests of the Government and the owners, licensors, and licensees of such data, the Contractor agrees, with respect to any such third party or Government data whether or not marked with a restrictive legend, specifically identified in this contract, or otherwise identified by the Contracting Officer as being subject to this clause, to—

- (1) use, disclose, and reproduce such data only to the extent necessary to perform the work required under this contract;
- (2) allow access to such data only to those of its employees that require access for their performance under this contract; and
- (3) return or dispose of such data, as the Contracting Officer may direct, when the data is no longer needed for contract performance.

(c) The Contractor shall ensure its subcontracts include a data protection clause before releasing information to its subcontractors pursuant to (b)(1) above.

(d) In the event that data includes a legend that the Contractor deems ambiguous, inappropriate, or incorrect, the Contractor shall treat such data as indicated above unless otherwise directed after obtaining clarification from the Contracting Officer.

(e) Notwithstanding the above, the Contractor shall not be restricted in the use, disclosure, and reproduction of any data that—

- (1) is, or becomes, generally available or public knowledge without breach of this clause;
- (2) is known to, in the possession of, or developed by the Contractor independently of data made available under this contract;
- (3) is rightfully received by the Contractor from a third party without restriction; or
- (4) is required to be produced by the Contractor pursuant to a court order or other Government action.

(f) If the Contractor believes that any of the events or conditions in (d) above remove restriction on the use, disclosure, or reproduction of data, the Contractor shall promptly notify the Contracting Officer of such belief before acting on such belief.

H.11 DATA ON GOES-R INSTRUMENTS

(a) The Government, through the National Aeronautics and Space Administration (NASA), has or likely will enter into contracts for the early development of the five GOES-R baseline instruments; viz., Advanced Baseline Imager (ABI), Hyperspectral Environmental Suite (HES), Solar Imaging Suite (SIS), Space Environment In Situ Suite (SEISS), and Geostationary Lightning Mapper (GLM). To the degree the following information becomes available during PDRR contract performance, the contemplates that it will make these data available to the Contractor—

- all Government requirements documents Unique Instrument Interface Document (UIID) & Performance and Operations Documents (PODs)
- instrument resource requirements (mass, power, volume, pointing, jitter, etc...)
- instrument interfaces (requirements & details - mechanical, thermal, electrical)
- instrument disturbances
- instrument modes
- instrument mounting concepts
- instrument operational concepts
- instrument approaches to modeling, simulation, and algorithms
- instrument contract / procurement details (project guidelines, levels of support, etc...)
- instrument schedule details
- instrument risk areas
- instrument models (finite element, thermal, solid)

b) As it deems practicable, the Government will permit and facilitate PDRR contractor interaction with the instrument vendors to support PDRR contract activities as follows:

1. Each PDRR contractor may be afforded up to two meetings for the PDRR base period and each option period (total = 6) with each instrument contractor for those instruments that are in formulation phase.
2. For instruments in implementation phase or that enter implementation phase during PDRR, one additional meeting with such instrument vendor(s) per contract period will be permitted.

SECTION H
SPECIAL CONTRACT REQUIREMENTS

3. Meetings will not exceed one day in length.
4. Meetings with instrument contractors are not transferable from one instrument contractor to another.
5. While the meeting format will be one-on-one meetings between the PDRR and instrument contractors, the Government will act as moderator or chair for all meetings to ensure that inappropriate discussions are not pursued..
6. The Government will determine the location of all meetings and may stipulate specific scheduling to minimize disruption and logistics.
7. PDRR contractors will provide the desired agenda topics and specific questions to the Government two weeks in advance of each meeting for review and approval.
8. The Government will have final approval of any actions generated during such meetings.
9. The Government, at its sole discretion, will make non-proprietary or non-competition sensitive information resulting from the meetings available to all interested PDRR contractors.
10. The purpose for the meetings is to support PDRR contract activities. Should the need arise to utilize these meetings to provide the instrument contractors necessary insight or information regarding PDRR activities, meeting time may be added, or separately scheduled, for that purpose and conducted in accordance with this clause..

(c) No data provided under paragraph (a) above and none of the information obtained under (b) above will constitute Government property, for the purposes of late, non-suitable, or defective Government property claims.

(d) Based on nature of these contemplated interchanges, the individual instrument contractors may require that the PDRR contractors sign non-disclosure agreements to ensure protection of competition and/or proprietary information. The Contractor shall be solely responsible for entering into any such non-disclosure agreements with each of the NASA instrument contractors. The absence of a non-disclosure agreement between the Contractor and the NASA instrument contractor may preclude the Government from making data from the NASA instrument contractor available.

(e) Although the Government intends to make data available to the Contractor regarding the instrument development efforts, it neither promises to do so nor warrants the suitability of the data for use under the non-suitability of any data provided by the Government shall entitle the Contractor to an equitable adjustment in this contract. This data is not covered by any Government property clause in this contract.

(f) PDRR contractors shall not create or otherwise enter into exclusive agreements with any instrument contractor that would preclude free and open exchange of information/data between instrument contractors and any PDRR contractor.

H.12 GOVERNMENT WORK PRODUCTS

The Contractor's procedures for protecting against unauthorized disclosure of information shall not require Government employees to relinquish control of their work products, whether classified or not, to the Contractor.

H.13 TECHNICAL DATA - WITHHOLDING

(a) If technical data, reviews, and other applicable events specified to be delivered under this contract, is not delivered within the time specified by this contract or is deficient upon delivery (including having inappropriate or overly restrictive markings), the Contracting Officer may, until such data is accepted by the Government, withhold payment to the Contractor of ten percent (10%) of the total contract price. Payments shall not be withheld nor any other action taken pursuant to this paragraph when the Contractor's failure to make timely delivery or to deliver such data without deficiencies arises out of causes beyond the control and without the fault or negligence of the Contractor.

(b) The withholding of any amount or subsequent payment to the Contractor shall not be construed as a waiver of any rights accruing to the Government under this contract.

H.14 RIGHTS IN PROPOSAL DATA

(a) Government rights prior to contract award. By submission of its offer, the Offeror agrees that the Government—

- (1) May reproduce the bid or proposal, or any portions thereof, to the extent necessary to evaluate the offer.
- (2) Shall use information contained in the bid or proposal only for evaluation purposes and shall not disclose, directly or indirectly, such information to any person including potential evaluators, unless that person has been authorized by the head of the agency, his or her designee, or the Contracting Officer to receive such information.

(b) Government rights subsequent to contract award. The Contractor agrees the Government shall have the rights to use, modify, reproduce, release, perform, display, or disclose information contained in the Contractor's bid or proposal within the GOES-R Program. The Government shall not release, perform, display, or disclose such information outside the Government without the Contractor's written permission.

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SECTION H
SPECIAL CONTRACT REQUIREMENTS

(c) Information available without restrictions. The Government's rights to use, modify, reproduce, release, perform, display, or, disclose information contained in a bid or proposal, including technical data or computer software, and to permit others to do so, shall not be restricted in any manner if such information has been released or disclosed to the Government or to other persons without restrictions other than a release or disclosure resulting from the sale, transfer, or other assignment of interest in the information to another party or the sale or transfer of some or all of a business entity or its assets to another party.

(d) Flowdown. The Contractor shall include this clause in all subcontracts or similar contractual instruments and require its subcontractors or suppliers to do so without alteration, except to identify the parties.

**SECTION I
CONTRACT CLAUSES**

I.1 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <http://www.arnet.gov/far/> AND http://oam.ocs.doc.gov/capps_car.html
(End of clause)

I.2 52.202-1 DEFINITIONS (JUL 2004)

(Reference)

I.3 52.203-3 GRATUITIES (APR 1984)

(Reference)

I.4 52.203-5 COVENANT AGAINST CONTINGENT FEES (APR 1984)

(Reference)

I.5 52.203-6 RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (JUL 1995)

(Reference)

I.6 52.203-7 ANTI-KICKBACK PROCEDURES (JUL 1995)

(Reference)

I.7 52.203-10 PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)

(Reference)

I.8 52.203-12 LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (JUN 2003)

(Reference)

I.9 52.204-2 SECURITY REQUIREMENTS (AUG 1996)

(Reference)

I.10 52.204-4 PRINTED OR COPIED DOUBLE-SIDED ON RECYCLED PAPER (AUG 2000)

(Reference)

I.11 52.209-6 PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (Jan 2005)

(Reference)

I.12 52.215-2 AUDIT AND RECORDS--NEGOTIATION (JUNE 1999)

(Reference)

I.13 52.215-8 ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT (OCT 1997)

(Reference)

I.14 52.215-11 PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA--MODIFICATIONS (OCT 1997)

(Reference)

I.15 52.215-13 SUBCONTRACTOR COST OR PRICING DATA--MODIFICATIONS (OCT 1997)

(Reference)

I.16 52.215-15 PENSION ADJUSTMENTS AND ASSET REVERSIONS (JAN 2004)

(Reference)

I.17 52.215-18 REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS (OCT 1997)

(Reference)

**SECTION I
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I.18 52.215-19 NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)

(Reference)

I.19 52.215-21 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA--MODIFICATIONS (OCT 1997)

(Reference)

I.20 52.219-4 NOTICE OF PRICE EVALUATION PREFERENCE FOR HUBZONE SMALL BUSINESS CONCERNS (OCT 2004)

(Reference)

I.21 52.219-8 UTILIZATION OF SMALL BUSINESS CONCERNS (MAY 2004)

(Reference)

I.22 52.219-9 II SMALL BUSINESS SUBCONTRACTING PLAN (JAN 2002)--ALTERNATE II (OCT 2001)

(Reference)

I.23 52.219-16 LIQUIDATED DAMAGES--SUBCONTRACTING PLAN (JAN 1999)

(Reference)

I.24 52.222-3 CONVICT LABOR (JUNE 2003)

(Reference)

I.25 52.222-21 PROHIBITION OF SEGREGATED FACILITIES (FEB 1999)

(Reference)

I.26 52.222-26 EQUAL OPPORTUNITY (APR 2002)

(Reference)

I.27 52.222-35 EQUAL OPPORTUNITY FOR SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS. [DEC 2001]

(Reference)

I.28 52.222-36 AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES (JUN 1998)

(Reference)

I.29 52.222-37 EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS (DEC 2001)

(Reference)

I.30 52.223-6 DRUG-FREE WORKPLACE (MAY 2001)

(Reference)

I.31 52.223-14 TOXIC CHEMICAL RELEASE REPORTING (AUG 2003)

(Reference)

I.32 52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (DEC 2003)

(Reference)

I.33 52.225-16 SANCTIONED EUROPEAN UNION COUNTRY SERVICES (FEB 2000)

(Reference)

I.34 52.227-1 I AUTHORIZATION AND CONSENT (JUL 1995)--ALTERNATE I (APR 1984)

(Reference)

I.35 52.227-2 NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (AUG 1996)

(Reference)

SECTION I
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I.36 52.227-10 FILING OF PATENT APPLICATIONS--CLASSIFIED SUBJECT MATTER (APR 1984)
(Reference)

I.37 52.227-14 III RIGHTS IN DATA--GENERAL (JUN 1987)--ALTERNATE III (JUN 1987)
(Reference 27.409)

I.38 52.229-3 FEDERAL, STATE, AND LOCAL TAXES (April 2003)
(Reference)

I.39 52.232-2 PAYMENTS UNDER FIXED-PRICE RESEARCH AND DEVELOPMENT CONTRACTS (APR 1984)
(Reference)

I.40 52.232-8 DISCOUNTS FOR PROMPT PAYMENT (FEB 2002)
(Reference)

I.41 52.232-9 LIMITATION ON WITHHOLDING OF PAYMENTS (APR 1984)
(Reference)

I.42 52.232-16 PROGRESS PAYMENTS (Apr 2003)
(Reference)

I.43 52.232-17 INTEREST (JUNE 1996)
(Reference)

I.44 52.232-23 ASSIGNMENT OF CLAIMS (JAN 1986)
(Reference)

I.45 52.232-25 PROMPT PAYMENT (OCT 2003)
(Reference)

I.46 52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION (OCT 2003)
(Reference)

I.47 52.233-1 I DISPUTES (JUL 2002)--ALTERNATE I (DEC 1991)
(Reference)

I.48 52.233-3 PROTEST AFTER AWARD (AUG 1996)
(Reference)

I.49 52.233-4 APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (OCT 2004)
(Reference)

I.50 52.234-1 INDUSTRIAL RESOURCES DEVELOPED UNDER DEFENSE PRODUCTION ACT TITLE III (DEC 1994)
(Reference)

I.51 52.242-13 BANKRUPTCY (JUL 1995)
(Reference)

I.52 52.243-1 V CHANGES--FIXED-PRICE (AUG 1987)--ALTERNATE V (APR 1984)
(Reference)

I.53 52.243-6 CHANGE ORDER ACCOUNTING (APR 1984)
(Reference)

I.54 52.243-7 NOTIFICATION OF CHANGES (APR 1984)
(Reference)

**SECTION I
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I.55 52.244-2 SUBCONTRACTS (AUG 1998)

(Reference)

I.56 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (Dec 2004)

(Reference)

I.57 52.245-2 GOVERNMENT PROPERTY (FIXED-PRICE CONTRACTS) (MAY 2004)

(Reference)

I.58 52.249-2 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (MAY 2004)

(Reference 49.502)

I.59 52.249-9 DEFAULT (FIXED-PRICE RESEARCH AND DEVELOPMENT) (APR 1984)

(Reference 49.504)

I.60 52.252-4 ALTERATIONS IN CONTRACT (APR 1984)

(Reference 52.107)

I.61 52.253-1 COMPUTER GENERATED FORMS (JAN 1991)

(Reference 53-111)

I.62 52.204-7 CENTRAL CONTRACTOR REGISTRATION (OCT 2003)

(a) Definitions. As used in this clause--

"Central Contractor Registration (CCR) database" means the primary Government repository for Contractor information required for the conduct of business with the Government.

"Data Universal Numbering System (DUNS) number" means the 9-digit number assigned by Dun and Bradstreet, Inc. (D&B) to identify unique business entities.

"Data Universal Numbering System +4 (DUNS+4) number" means the DUNS number assigned by D&B plus a 4-character suffix that may be assigned by a business concern. (D&B has no affiliation with this 4-character suffix.) This 4-character suffix may be assigned at the discretion of the business concern to establish additional CCR records for identifying alternative Electronic Funds Transfer (EFT) accounts (see the FAR at Subpart 32.11) for the same parent concern.

"Registered in the CCR database" means that--

- (1) The Contractor has entered all mandatory information, including the DUNS number or the DUNS+4 number, into the CCR database; and
- (2) The Government has validated all mandatory data fields and has marked the record "Active".

(b)

(1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee shall be registered in the CCR database prior to award, during performance, and through final payment of any contract, basic agreement, basic ordering agreement, or blanket purchasing agreement resulting from this solicitation.

(2) The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation "DUNS" or "DUNS +4" followed by the DUNS or DUNS +4 number that identifies the offeror's name and address exactly as stated in the offer. The DUNS number will be used by the Contracting Officer to verify that the offeror is registered in the CCR database.

(c) If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one.

(1) An offeror may obtain a DUNS number--

- (i) If located within the United States, by calling Dun and Bradstreet at 1-866-705-5711 or via the Internet at <http://www.dnb.com>; or
- (ii) If located outside the United States, by contacting the local Dun and Bradstreet office.

(2) The offeror should be prepared to provide the following information:

- (i) Company legal business.
- (ii) Tradestyle, doing business, or other name by which your entity is commonly recognized.
- (iii) Company Physical Street Address, City, State, and Zip Code.
- (iv) Company Mailing Address, City, State and Zip Code (if separate from physical).
- (v) Company Telephone Number.
- (vi) Date the company was started.
- (vii) Number of employees at your location.
- (viii) Chief executive officer/key manager.
- (ix) Line of business (industry).
- (x) Company Headquarters name and address (reporting relationship within your entity).

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(d) If the Offeror does not become registered in the CCR database in the time prescribed by the Contracting Officer, the Contracting Officer will proceed to award to the next otherwise successful registered Offeror.

(e) Processing time, which normally takes 48 hours, should be taken into consideration when registering. Offerors who are not registered should consider applying for registration immediately upon receipt of this solicitation.

(f) The Contractor is responsible for the accuracy and completeness of the data within the CCR database, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to review and update on an annual basis from the date of initial registration or subsequent updates its information in the CCR database to ensure it is current, accurate and complete. Updating information in the CCR does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

(g)

(1)

(i) If a Contractor has legally changed its business name, "doing business as" name, or division name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in Subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business day's written notification of its intention to

(A) change the name in the CCR database;

(B) comply with the requirements of Subpart 42.12 of the FAR; and

(C) agree in writing to the timeline and procedures specified by the responsible Contracting Officer. The Contractor must provide with the notification sufficient documentation to support the legally changed name.

(ii) If the Contractor fails to comply with the requirements of paragraph (g)(1)(i) of this clause, or fails to perform the agreement at paragraph (g)(1)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the CCR information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the electronic funds transfer (EFT) clause of this contract.

(2) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in the CCR record to reflect an assignee for the purpose of assignment of claims (see FAR Subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the CCR database. Information provided to the Contractor's CCR record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the "Suspension of payment" paragraph of the EFT clause of this contract.

(h) Offerors and Contractors may obtain information on registration and annual confirmation requirements via the internet at <http://www.ccr.gov> or by calling 1-888-227-2423, or 269-961-5757.

(End of clause)

I.63 52.217-8 OPTION TO EXTEND SERVICES (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within ten (10) calendar days of the contract expiration date.

(End of clause)

I.64 52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor within six (6) months after the award date of this contract provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least fourteen calendar days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed twenty-two (22) months.

(End of clause)

I.65 52.222-39 NOTIFICATION OF EMPLOYEE RIGHTS CONCERNING PAYMENT OF UNION DUES OR FEES (Dec 2004)

(a) "Definition." As used in this clause-- "United States" means the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.

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(b) Except as provided in paragraph (e) of this clause, during the term of this contract, the Contractor shall post a notice, in the form of a poster, informing employees of their rights concerning union membership and payment of union dues and fees, in conspicuous places in and about all its plants and offices, including all places where notices to employees are customarily posted. The notice shall include the following information (except that the information pertaining to National Labor Relations Board shall not be included in notices posted in the plants or offices of carriers subject to the Railway Labor Act, as amended (45 U.S.C. 151-188)). Notice to Employees Under Federal law, employees cannot be required to join a union or maintain membership in a union in order to retain their jobs. Under certain conditions, the law permits a union and an employer to enter into a union-security agreement requiring employees to pay uniform periodic dues and initiation fees. However, employees who are not union members can object to the use of their payments for certain purposes and can only be required to pay their share of union costs relating to collective bargaining, contract administration, and grievance adjustment. If you do not want to pay that portion of dues or fees used to support activities not related to collective bargaining, contract administration, or grievance adjustment, you are entitled to an appropriate reduction in your payment. If you believe that you have been required to pay dues or fees used in part to support activities not related to collective bargaining, contract administration, or grievance adjustment, you may be entitled to a refund and to an appropriate reduction in future payments. For further information concerning your rights, you may wish to contact the National Labor Relations Board (NLRB) either at one of its Regional offices or at the following address or toll free number:

National Labor Relations Board Division of Information 1099 14th Street, N.W. Washington, DC 20570 1-866-667-6572 1-866-316-6572 (TTY) To locate the nearest NLRB office, see NLRB's website at <http://www.nlr.gov>.

(c) The Contractor shall comply with all provisions of Executive Order 13201 of February 17, 2001, and related implementing regulations at 29 CFR part 470, and orders of the Secretary of Labor.

(d) In the event that the Contractor does not comply with any of the requirements set forth in paragraphs (b), (c), or (g), the Secretary may direct that this contract be cancelled, terminated, or suspended in whole or in part, and declare the Contractor ineligible for further Government contracts in accordance with procedures at 29 CFR part 470, Subpart B-Compliance Evaluations, Complaint Investigations and Enforcement Procedures. Such other sanctions or remedies may be imposed as are provided by 29 CFR part 470, which implements Executive Order 13201, or as are otherwise provided by law.

(e) The requirement to post the employee notice in paragraph (b) does not apply to-

- (1) Contractors and subcontractors that employ fewer than 15 persons;
- (2) Contractor establishments or construction work sites where no union has been formally recognized by the Contractor or certified as the exclusive bargaining representative of the Contractor's employees;
- (3) Contractor establishments or construction work sites located in a jurisdiction named in the definition of the United States in which the law of that jurisdiction forbids enforcement of union-security agreements;
- (4) Contractor facilities where upon the written request of the Contractor, the Department of Labor Deputy Assistant Secretary for Labor Management Programs has waived the posting requirements with respect to any of the Contractor's facilities if the Deputy Assistant Secretary finds that the Contractor has demonstrated that--
 - (i) The facility is in all respects separate and distinct from activities of the Contractor related to the performance of a contract; and
 - (ii) Such a waiver will not interfere with or impede the effectuation of the Executive order; or
- (5) Work outside the United States that does not involve the recruitment or employment of workers within the United States.

(f) The Department of Labor publishes the official employee notice in two variations; one for contractors covered by the Railway Labor Act and a second for all other contractors. The Contractor shall--

- (1) Obtain the required employee notice poster from the Division of Interpretations and Standards, Office of Labor-Management Standards, U.S. Department of Labor, 200 Constitution Avenue, NW, Room N-5605, Washington, DC 20210, or from any field office of the Department's Office of Labor-Management Standards or Office of Federal Contract Compliance Programs;
- (2) Download a copy of the poster from the Office of Labor-Management Standards website at <http://www.olms.dol.gov>; or
- (3) Reproduce and use exact duplicate copies of the Department of Labor's official poster.

(g) The Contractor shall include the substance of this clause in every subcontract or purchase order that exceeds the simplified acquisition threshold, entered into in connection with this contract, unless exempted by the Department of Labor Deputy Assistant Secretary for Labor-Management Programs on account of special circumstances in the national interest under authority of 29 CFR 470.3(c). For indefinite quantity subcontracts, the Contractor shall include the substance of this clause if the value of orders in any calendar year of the subcontract is expected to exceed the simplified acquisition threshold. Pursuant to 29 CFR part 470, Subpart B-Compliance Evaluations, Complaint Investigations and Enforcement Procedures, the Secretary of Labor may direct the Contractor to take such action in the enforcement of these regulations, including the imposition of sanctions for noncompliance with respect to any such subcontract or purchase order. If the Contractor becomes involved in litigation with a subcontractor or vendor, or is threatened with such involvement, as a result of such direction, the Contractor may request the United States, through the Secretary of Labor, to enter into such litigation to protect the interests of the United States.

(End of clause)

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I.66 52.232-32 PERFORMANCE-BASED PAYMENTS (Feb 2002)

(a) "Amount of payments and limitations on payments." Subject to such other limitations and conditions as are specified in this contract and this clause, the amount of payments and limitations on payments shall be specified in the contract's description of the basis for payment.

(b) "Contractor request for performance-based payment." The Contractor may submit requests for payment of performance-based payments not more frequently than monthly, in a form and manner acceptable to the Contracting Officer. Unless otherwise authorized by the Contracting Officer, all performance-based payments in any period for which payment is being requested shall be included in a single request, appropriately itemized and totaled. The Contractor's request shall contain the information and certification detailed in paragraphs (l) and (m) of this clause.

(c) "Approval and payment of requests."

(1) The Contractor shall not be entitled to payment of a request for performance-based payment prior to successful accomplishment of the event or performance criterion for which payment is requested. The Contracting Officer shall determine whether the event or performance criterion for which payment is requested has been successfully accomplished in accordance with the terms of the contract. The Contracting Officer may, at any time, require the Contractor to substantiate the successful performance of any event or performance criterion which has been or is represented as being payable.

(2) A payment under this performance-based payment clause is a contract financing payment under the Prompt Payment clause of this contract and not subject to the interest penalty provisions of the Prompt Payment Act. The designated payment office will pay approved requests on the thirtieth (30th) day after receipt of the request for performance-based payment. However, the designated payment office is not required to provide payment if the Contracting Officer requires substantiation as provided in paragraph (c)(1) of this clause, or inquires into the status of an event or performance criterion, or into any of the conditions listed in paragraph (e) of this clause, or into the Contractor certification. The payment period will not begin until the Contracting Officer approves the request.

(3) The approval by the Contracting Officer of a request for performance-based payment does not constitute an acceptance by the Government and does not excuse the Contractor from performance of obligations under this contract.

(d) "Liquidation of performance-based payments."

(1) Performance-based finance amounts paid prior to payment for delivery of an item shall be liquidated by deducting a percentage or a designated dollar amount from the delivery payment. If the performance-based finance payments are on a delivery item basis, the liquidation amount for each such line item shall be the percent of that delivery item price that was previously paid under performance-based finance payments or the designated dollar amount. If the performance-based finance payments are on a whole contract basis, liquidation shall be by either predesignated liquidation amounts or a liquidation percentage.

(2) If at any time the amount of payments under this contract exceeds any limitation in this contract, the Contractor shall repay to the Government the excess. Unless otherwise determined by the Contracting Officer, such excess shall be credited as a reduction in the unliquidated performance-based payment balance(s), after adjustment of invoice payments and balances for any retroactive price adjustments.

(e) "Reduction or suspension of performance-based payments." The Contracting Officer may reduce or suspend performance-based payments, liquidate performance-based payments by deduction from any payment under the contract, or take a combination of these actions after finding upon substantial evidence any of the following conditions:

(1) The Contractor failed to comply with any material requirement of this contract (which includes paragraphs (h) and (i) of this clause).

(2) Performance of this contract is endangered by the Contractor's--

(i) Failure to make progress; or

(ii) Unsatisfactory financial condition.

(3) The Contractor is delinquent in payment of any subcontractor or supplier under this contract in the ordinary course of business.

(f) "Title."

(1) Title to the property described in this paragraph (f) shall vest in the Government. Vestiture shall be immediately upon the date of the first performance-based payment under this contract, for property acquired or produced before that date. Otherwise, vestiture shall occur when the property is or should have been allocable or properly chargeable to this contract.

(2) "Property," as used in this clause, includes all of the following described items acquired or produced by the Contractor that are or should be allocable or properly chargeable to this contract under sound and generally accepted accounting principles and practices:

(i) Parts, materials, inventories, and work in process;

(ii) Special tooling and special test equipment to which the Government is to acquire title under any other clause of this contract;

(iii) Nondurable (i.e., noncapital) tools, jigs, dies, fixtures, molds, patterns, taps, gauges, test equipment and other similar manufacturing aids, title to which would not be obtained as special tooling under paragraph (f)(2)(ii) of this clause; and

(iv) Drawings and technical data, to the extent the Contractor or subcontractors are required to deliver them to the Government by other clauses of this contract.

(3) Although title to property is in the Government under this clause, other applicable clauses of this contract (e.g., the termination or special tooling clauses) shall determine the handling and disposition of the property.

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(4) The Contractor may sell any scrap resulting from production under this contract, without requesting the Contracting Officer's approval, provided that any significant reduction in the value of the property to which the Government has title under this clause is reported in writing to the Contracting Officer.

(5) In order to acquire for its own use or dispose of property to which title is vested in the Government under this clause, the Contractor must obtain the Contracting Officer's advance approval of the action and the terms. If approved, the basis for payment (the events or performance criteria) to which the property is related shall be deemed to be not in compliance with the terms of the contract and not payable (if the property is part of or needed for performance), and the Contractor shall refund the related performance-based payments in accordance with paragraph (d) of this clause.

(6) When the Contractor completes all of the obligations under this contract, including liquidation of all performance-based payments, title shall vest in the Contractor for all property (or the proceeds thereof) not--

(i) Delivered to, and accepted by, the Government under this contract; or

(ii) Incorporated in supplies delivered to, and accepted by, the Government under this contract and to which title is vested in the Government under this clause.

(7) The terms of this contract concerning liability for Government-furnished property shall not apply to property to which the Government acquired title solely under this clause.

(g) "Risk of loss." Before delivery to and acceptance by the Government, the Contractor shall bear the risk of loss for property, the title to which vests in the Government under this clause, except to the extent the Government expressly assumes the risk. If any property is damaged, lost, stolen, or destroyed, the basis of payment (the events or performance criteria) to which the property is related shall be deemed to be not in compliance with the terms of the contract and not payable (if the property is part of or needed for performance), and the Contractor shall refund the related performance-based payments in accordance with paragraph (d) of this clause.

(h) "Records and controls." The Contractor shall maintain records and controls adequate for administration of this clause. The Contractor shall have no entitlement to performance-based payments during any time the Contractor's records or controls are determined by the Contracting Officer to be inadequate for administration of this clause.

(i) "Reports and Government access." The Contractor shall promptly furnish reports, certificates, financial statements, and other pertinent information requested by the Contracting Officer for the administration of this clause and to determine that an event or other criterion prompting a financing payment has been successfully accomplished. The Contractor shall give the Government reasonable opportunity to examine and verify the Contractor's records and to examine and verify the Contractor's performance of this contract for administration of this clause.

(j) "Special terms regarding default." If this contract is terminated under the Default clause,

(1) the Contractor shall, on demand, repay to the Government the amount of unliquidated performance-based payments,
and

(2) title shall vest in the Contractor, on full liquidation of all performance-based payments, for all property for which the Government elects not to require delivery under the Default clause of this contract. The Government shall be liable for no payment except as provided by the Default clause.

(k) "Reservation of rights."

(1) No payment or vesting of title under this clause shall--

(i) Excuse the Contractor from performance of obligations under this contract, or

(ii) Constitute a waiver of any of the rights or remedies of the parties under the contract.

(2) The Government's rights and remedies under this clause--

(i) Shall not be exclusive, but rather shall be in addition to any other rights and remedies provided by law or this contract; and

(ii) Shall not be affected by delayed, partial, or omitted exercise of any right, remedy, power, or privilege, nor shall such exercise or any single exercise preclude or impair any further exercise under this clause or the exercise of any other right, power, or privilege of the Government.

(l) "Content of Contractor's request for performance-based payment." The Contractor's request for performance-based payment shall contain the following:

(1) The name and address of the Contractor;

(2) The date of the request for performance-based payment;

(3) The contract number and/or other identifier of the contract or order under which the request is made;

(4) Such information and documentation as is required by the contract's description of the basis for payment; and

(5) A certification by a Contractor official authorized to bind the Contractor, as specified in paragraph (m) of this clause.

(m) "Content of Contractor's certification." As required in paragraph (l)(5) of this clause, the Contractor shall make the following certification in each request for performance-based payment:

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I certify to the best of my knowledge and belief that--

- (1) This request for performance-based payment is true and correct; this request (and attachments) has been prepared from the books and records of the Contractor, in accordance with the contract and the instructions of the Contracting Officer;
- (2) (Except as reported in writing on _____), all payments to subcontractors and suppliers under this contract have been paid, or will be paid, currently, when due in the ordinary course of business;
- (3) There are no encumbrances (except as reported in writing on _____) against the property acquired or produced for, and allocated or properly chargeable to, the contract which would affect or impair the Government's title;
- (4) There has been no materially adverse change in the financial condition of the Contractor since the submission by the Contractor to the Government of the most recent written information dated _____; and
- (5) After the making of this requested performance-based payment, the amount of all payments for each deliverable item for which performance-based payments have been requested will not exceed any limitation in the contract, and the amount of all payments under the contract will not exceed any limitation in the contract.

(End of clause)

SECTION J
LIST OF ATTACHMENTS

J.1 LIST OF ATTACHMENTS

DOCUMENT	PGS	DATE	TITLE
EXHIBIT A	12	22 MAR 2005	Contract Data Requirement List (CDRL) (DD Form 1423)
ATTACHMENT 1	5	22 MAR 2005	Statement of Objectives (SOO)
ATTACHMENT 2	(*)	(*)	Integrated Master Plan (IMP)
ATTACHMENT 3	(*)	(*)	Contract Work Breakdown Structure (CWBS)
ATTACHMENT 4	(*)	(*)	Subcontracting Plan
ATTACHMENT 5	(*)	(*)	Performance-Based Payment Schedule (if proposed in accordance with FAR 52.232-28)

(*) Offeror to fill in

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K.1 52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (JAN 2005)

(a)

(1) If the clause at 52.204-7, Central Contractor Registration, is included in this solicitation, paragraph (b) of this provision applies.

(2) If the clause at 52.204-7 is not included in this solicitation, and the offeror is currently registered in CCR, and has completed the ORCA electronic ally, the offeror may choose to use paragraph (b) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

☐ (i) Paragraph (b) applies.

☐ (ii) Paragraph (b) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(b) The offeror has completed the annual representations and certifications electronically via the Online Representations and Certifications Application (ORCA) website at <http://orca.bpn.gov>. After reviewing the ORCA database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause #	Title	Date	Change

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on ORCA.

(End of Provision)

K.2 52.209-5 CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS (DEC 2001)

(a)

(1) The Offeror certifies, to the best of its knowledge and belief, that--

(i) The Offeror and/or any of its Principals--

(A) Are // are not // presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

(B) Have // have not //, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and

(C) Are // are not // presently indicted for, or otherwise criminally or civilly charged by a Governmental entity with, commission of any of the offenses enumerated in paragraph (a)(1)(i)(B) of this provision.

(ii) The Offeror has o has not o, within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.

(2) "Principals," for the purposes of this certification, means officers; directors; owners; partners; and, persons having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a subsidiary, division, or business segment, and similar positions). This Certification Concerns a Matter Within the Jurisdiction of an Agency of the United States and the Making of a False, Fictitious, or Fraudulent Certification May Render the Maker Subject to Prosecution Under Section 1001, Title 18, United States Code.

(b) The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

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(c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror nonresponsible.

(d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

(e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government, the Contracting Officer may terminate the contract resulting from this solicitation for default.

(End of provision)

K.3 52.230-1 COST ACCOUNTING STANDARDS NOTICES AND CERTIFICATION (JUNE 2000)

Note: This notice does not apply to small businesses or foreign Governments. This notice is in three parts, identified by Roman numerals I through III. Offerors shall examine each part and provide the requested information in order to determine Cost Accounting Standards (CAS) requirements applicable to any resultant contract. If the offeror is an educational institution, Part II does not apply unless the contemplated contract will be subject to full or modified CAS coverage pursuant to 48 CFR 9903.201-2(c)(5) or 9903.201-2(c)(6), respectively.

I. Disclosure Statement-Cost Accounting Practices and Certification

(a) Any contract in excess of \$500,000 resulting from this solicitation will be subject to the requirements of the Cost Accounting Standards Board (48 CFR Chapter 99), except for those contracts which are exempt as specified in 48 CFR 9903.201-1.

(b) Any offeror submitting a proposal which, if accepted, will result in a contract subject to the requirements of 48 CFR Chapter 99 must, as a condition of contracting, submit a Disclosure Statement as required by 48 CFR 9903.202. When required, the Disclosure Statement must be submitted as a part of the offeror's proposal under this solicitation unless the offeror has already submitted a Disclosure Statement disclosing the practices used in connection with the pricing of this proposal. If an applicable Disclosure Statement has already been submitted, the offeror may satisfy the requirement for submission

by providing the information requested in paragraph (c) of Part I of this provision.

Caution: In the absence of specific regulations or agreement, a practice disclosed in a Disclosure Statement shall not, by virtue of such disclosure, be deemed to be a proper, approved, or agreed-to practice for pricing proposals or accumulating and reporting contract performance cost data.

(c) Check the appropriate box below:

☐ (1) "Certificate of Concurrent Submission of Disclosure Statement." The offeror hereby certifies that, as a part of the offer, copies of the Disclosure Statement have been submitted as follows:

(i) Original and one copy to the cognizant Administrative Contracting Officer (ACO) or cognizant Federal agency official authorized to act in that capacity (Federal official), as applicable; and

(ii) One copy to the cognizant Federal auditor.

(Disclosure must be on Form No. CASB DS-1 or CASB DS-2, as applicable. Forms may be obtained from the cognizant ACO or Federal official and/or from the loose-leaf version of the Federal Acquisition Regulation.)

Date of Disclosure Statement: _____

Name and Address of Cognizant ACO or Federal Official Where Filed: _____

The offeror further certifies that the practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the Disclosure Statement.

☐ (2) "Certificate of Previously Submitted Disclosure Statement." The offeror hereby certifies that the required Disclosure Statement was filed as follows:

Date of Disclosure Statement: _____

Name and Address of Cognizant ACO or Federal Official

Where Filed: _____

The offeror further certifies that the practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the applicable Disclosure Statement.

☐ (3) "Certificate of Monetary Exemption." The offeror hereby certifies that the offeror, together with all divisions, subsidiaries, and affiliates under common control, did not receive net awards of negotiated prime contracts and subcontracts subject to CAS

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totaling \$50 million or more in the cost accounting period immediately proceeding the period in which this proposal was submitted. The offeror further certifies that if such status changes before an award resulting from this proposal, the offeror will advise the Contracting Officer immediately.

☐ (4) "Certificate of Interim Exemption." The offeror hereby certifies that (i) the offeror first exceeded the monetary exemption for disclosure, as defined in (3) of this subsection, in the cost accounting period immediately preceding the period in which this offer was submitted and (ii) in accordance with 48 CFR 9903.202-1, the offeror is not yet required to submit a Disclosure Statement. The offeror further certifies that if an award resulting from this proposal has not been made within 90 days after the end of that period, the offeror will immediately submit a revised certificate to the Contracting Officer, in the form specified under paragraph (c)(1) or (c)(2) of Part I of this provision, as appropriate, to verify submission of a completed Disclosure Statement.

Caution: Offerors currently required to disclose because they were awarded a CAS-covered prime contract or subcontract of \$50 million or more in the current cost accounting period may not claim this exemption (4). Further, the exemption applies only in connection with proposals submitted before expiration of the 90-day period following the cost accounting period in which the monetary exemption was exceeded.

II. Cost Accounting Standards-Eligibility for Modified Contract Coverage

If the offeror is eligible to use the modified provisions of 48 CFR 9903.201-2(b) and elects to do so, the offeror shall indicate by checking the box below. Checking the box below shall mean that the resultant contract is subject to the Disclosure and Consistency of Cost Accounting Practices clause in lieu of the Cost Accounting Standards clause.

☐ The offeror hereby claims an exemption from the Cost Accounting Standards clause under the provisions of 48 CFR 9903.201-2(b) and certifies that the offeror is eligible for use of the Disclosure and Consistency of Cost Accounting Practices clause because during the cost accounting period immediately preceding the period in which this proposal was submitted, the offeror received less than \$50 million in awards of CAS-covered prime contracts and subcontracts. The offeror further certifies that if such status changes before an award resulting from this proposal, the offeror will advise the Contracting Officer immediately.

Caution: An offeror may not claim the above eligibility for modified contract coverage if this proposal is expected to result in the award of a CAS-covered contract of \$50 million or more or if, during its current cost accounting period, the offeror has been awarded a single CAS-covered prime contract or subcontract of \$50 million or more.

III. Additional Cost Accounting Standards Applicable to Existing Contracts

The offeror shall indicate below whether award of the contemplated contract would, in accordance with paragraph (a)(3) of the Cost Accounting Standards clause, require a change in established cost accounting practices affecting existing contracts and subcontracts.

☐ yes ☐ no

(End of provision)

SECTION L
INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

L.1 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es): <http://www.arnet.gov/far/>
http://oam.ocs.doc.gov/capps_car.html

(End of provision)

L.2 RESERVED

L.3 52.204-6 DATA UNIVERSAL NUMBERING SYSTEM (DUNS) NUMBER (OCT 2003)

(Reference)

L.4 52.214-34 SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE (APR 1991)

(Reference)

L.5 52.215-1 INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITION (JAN 2004)

(Reference)

L.6 52.222-24 PREAWARD ON-SITE EQUAL OPPORTUNITY COMPLIANCE EVALUATION (FEB 1999)

(Reference)

L.7 52.232-13 NOTICE OF PROGRESS PAYMENTS (APR 1984)

(Reference)

L.8 52.211-1 AVAILABILITY OF SPECIFICATIONS LISTED IN THE GSA INDEX OF FEDERAL SPECIFICATIONS, STANDARDS AND COMMERCIAL ITEM DESCRIPTIONS, FPMR PART 101-29 (AUG 1998)

(a) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to--

GSA Federal Supply Service
Specifications Section, Suite 8100
470 East L'Enfant Plaza, SW
Washington, DC 20407
Telephone (202) 619-8925
Facsimile (202) 619-8978.

(b) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (a) of this provision. Additional copies will be issued for a fee.

(End of provision)

L.9 52.215-20 IV REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997)--ALTERNATE IV (OCT 1997)

(a) Submission of cost or pricing data is not required.

(b) Provide information described below: See instructions for submitting "Volume 6, Price Proposal" in the clause titled "Proposal Volumes and Content".

L.10 1352.215-73 INQUIRIES (MARCH 2000)

Offerors must submit all questions concerning this solicitation in writing to the Contracting Officer. They must be received no later than fifteen calendar days after the date of this solicitation. All responses to the questions will be made in writing and included in an amendment to the solicitation.

SECTION L
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L.11 52.232-28 INVITATION TO PROPOSE PERFORMANCE-BASED PAYMENTS (MAR 2000)

- (a) The Government invites the offeror to propose terms under which the Government will make performance-based contract financing payments during contract performance. The Government will consider performance-based payment financing terms proposed by the offeror in the evaluation of the offeror's proposal. The Contracting Officer will incorporate the financing terms of the successful offeror and the FAR clause, Performance-Based Payments, at FAR 52.232-32, in any resulting contract.
- (b) In the event of any conflict between the terms proposed by the offeror and the terms in the clause at FAR 52.232-32, Performance-Based Payments, the terms of the clause at FAR 52.232-32 shall govern.
- (c) The Contracting Officer will not accept the offeror's proposed performance-based payment financing if the financing does not confirm to the following limitations:
- (1) The Government will make delivery payments only for supplies delivered and accepted, or services rendered and accepted in accordance with the payment terms of this contract.
 - (2) The terms and conditions of the performance-based payments must--
 - (i) Comply with FAR 32.1004;
 - (ii) Be reasonable and consistent with all other technical and cost information included in the offeror's proposal; and
 - (iii) Their total shall not exceed 90 percent of the contract price if on a whole contract basis, or 90 percent of the delivery item price if on a delivery item basis.
 - (3) The terms and conditions of the performance-based financing must be in the best interests of the Government.
- (d) The offeror's proposal of performance-based payment financing shall include the following:
- (1) The proposed contractual language describing the performance-based payments (see FAR 32.1004 for appropriate criteria for establishing performance bases and performance-based finance payment amounts).
 - (2) A listing of--
 - (i) The project performance-based payment dates and the project payment amounts; and
 - (ii) The projected delivery date and the projected payment amount.
 - (3) Information addressing the Contractor's investment in the contract.
- (e) Evaluation of the offeror's proposed prices and financing terms will include whether the offeror's proposed performance-based payment events and payment amounts are reasonable and consistent with all other terms and conditions of the offeror's proposal.
- (End of provision)

L.12 52.233-2 SERVICE OF PROTEST (AUG 1996)

- (a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from (see CAR 1352.233-71, Service of Protest)
- (b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.
- (End of provision)

L.13 1352.233-71 SERVICE OF PROTESTS (MARCH 2000)

An agency protest may be filed with either (1) the Contracting Officer, or (2) at a level above the Contracting Officer, with the agency Protest Decision Authority. See 64 Fed. Reg. 16,651 (April 6, 1999) (Internet site: <http://oamweb.ossec.doc.gov/conops/reflib/alp1296.htm>) for the procedures for filing agency protests at the level above the Contracting Officer (with the Protest Decision Authority).

Agency protests filed with the Contracting Officer shall be sent to the following address:

ROBERT E. RANSOM
NESDIS HQTR Route: E/OSD
BLDG: SSMC1 RM: 6213 1335 EAST WEST HWY
SILVER SPRING MD 20910-3283

If a protest is filed with either the Protest Decision Authority, or with the General Accounting Office (GAO), a complete copy of the protest (including all attachments) shall be served upon both the Contracting Officer and Contract Law Division of the Office of the General Counsel within one day of filing with the Protest Decision Authority or with GAO. Service upon the Contract Law Division shall be made, as follows:

U.S. Department of Commerce
Office of the General Counsel
Contract Law Division--Room 5893
Herbert C. Hoover Building

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14th Street and Constitution Avenue, N.W.
Washington, D.C. 20230.
Attn: Mark Langstein, Esquire
FAX: (202) 482-5858

L.14 1352.242-71 POST-AWARD CONFERENCE (MARCH 2000)

A post-award conference with the successful offeror may be required. If required, it will be scheduled and held within thirty (30) days after the date of contract award. The conference will be held at:
Contractor's facility

L.15 1352.252-71 REGULATORY NOTICE (MARCH 2000)

Offerors are advised that certain provisions and clauses identified with a Commerce Acquisition Regulation (CAR) notation for identification purposes, have not yet been incorporated into the CAR. However, all of these items are binding for this acquisition and will eventually be contained in the CAR at Part 13 of Title 48 of the Code of Federal Regulations.

L.16 APPLICABLE CLAUSES

The offeror shall select the most appropriate clause from the list below and include it/them in its proposed model contract. If no such selection is made, the contractor hereby consents to the Government's insertion of the below listed clauses, on its interpretation of applicability, relative to the offeror's response to Section K representations.

(a) Patent Rights. FAR 52.227-11, Patent Rights-Retention By The Contractor (short form) will be used in Section I or FAR 52.227-12, Patent Rights - Retention By The Contractor (long form) in Section I consistent with FAR Part 27.

(b) Cost Accounting Standards. Section I of this solicitation may contain the three Cost Accounting Standards clauses at FAR 52.230-2, 52.230-3, 52.230-4, 52.230-5, and/or 52.230-6. The resulting contract will contain only those clauses required based on the offeror's response to the Section K certification titled Cost Accounting Standards Notices and Certification (National Defense).

(c) State of New Mexico. Section I of this solicitation may contain the clause at FAR 52.229-10, STATE OF NEW MEXICO GROSS RECEIPTS AND COMPENSATING TAX. The resultant contract will contain this clause only if performance is in whole or in part within the State of New Mexico and the contract directs or authorizes the Contractor to acquire property as a direct cost under the contract.

L.17 RELATED IR&D

Offerors are requested to identify any Independent Research and Development (IR&D) programs they conducted within the past three years in the technical area being solicited (or which it intends to conduct concurrent with the proposed contract). The significant results of such projects (or anticipated results) should be integrated into the proposals wherever appropriate.

L.18 PROPOSAL VOLUMES AND CONTENTS

The offeror shall submit its proposal according to the guidelines in this provision.

(a) VOLUME I—EXECUTIVE SUMMARY.

(1) Section 1—Executive Summary. A brief and integrated overview of the offeror's total proposal describing how the objectives of the acquisition will be met, with highlights of the proposed system concept. This section should be in landscape format and is limited to 12 pages.

(2) Section 2—Subcontracts. A summary outline of how the effort required by the solicitation will be assigned for performance within the offeror's corporate entity and among proposed subcontractors. This section should be in landscape format and is limited to 4 pages. Subcontractor information may also be included where appropriate in the several sections of Volume III, Technical Proposal. The offeror shall include the socioeconomic size status of each proposed subcontractor.

(3) Section 3—Outcomes. A brief description of the outcomes or objectives the Government should expect from CLIN 0100 (including its options). The outcomes and objectives description should include short narratives on the outcomes and objectives of each of the reviews and demonstrations included in that CLIN. This section should be in landscape format and is limited to 4 pages.

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(b) VOLUME II—WORK STATEMENT.

(1) Section 1—Integrated Master Plan (IMP). See clause titled INTEGRATED MASTER PLAN (IMP), INTEGRATED MASTER SCHEDULE (IMS), AND CONTRACT WORK BREAKDOWN STRUCTURE (CWBS) of this RFP. This section is limited to 100 pages.

(2) Section 2—Integrated Master Schedule (IMS). See clause titled INTEGRATED MASTER PLAN (IMP), INTEGRATED MASTER SCHEDULE (IMS), AND CONTRACT WORK BREAKDOWN STRUCTURE (CWBS) of this RFP. This section is limited to 80 pages.

(3) Section 3—Contract Work Breakdown Structure (CWBS). See clause titled INTEGRATED MASTER PLAN (IMP), INTEGRATED MASTER SCHEDULE (IMS), AND CONTRACT WORK BREAKDOWN STRUCTURE (CWBS) of this RFP. This section is limited to 20 pages.

(c) VOLUME III—TECHNICAL PROPOSAL. The offeror shall prepare this volume in six sections. The first four sections relate directly to the Mission Capability subfactors as listed in Section M of this solicitation. The fifth is a top-level IMP/IMS for the A&O phase and the sixth is a cross-reference matrix. The offeror's discussion in each section must include discussion in sufficient detail to allow assessment of offeror's ability to accomplish the proposal requirements. Wherever relevant in Sections 1 through 4, the offeror is encouraged to use cross-references to the essential processes described in the IMP or to any other applicable sections of the proposal, rather than repeating that information in the several sections of this volume. Hypertext links should be used in the electronic version. The total page limit for Sections 1 through 4 is 125 pages—the offeror may apportion its pages among these sections as it sees fit.

(1) Section 1—Architectural Concepts. See Table L&M-1.

(2) Section 2—Program Definition and Risk Reduction. See Table L&M-1.

(3) Section 3—Risk Mitigation. See Table L&M-1.

(4) Section 4—System Engineering and Program Execution. See Table L&M-1.

(5) Section 5—A&O IMP and IMS Summary. The offeror shall provide a summary-level IMP and IMS for the GOES-R A&O phase. This IMP and IMS will continue the offeror's PDRR approach into the next phase. IMP narratives are not required. This section is limited to 20 pages.

(6) Section 6—Cross-Reference Matrix. The offeror shall provide a Cross-Reference Matrix which ties the objectives of the Statement of Objectives (SOO) to the Mission Capability subfactors of Section M, the technical proposal guidelines in Section L, CDRL, IMP, CWBS, and technical proposal. This section is not subject to page limitations.

(d) VOLUME IV—PAST PERFORMANCE PROPOSAL. This volume will provide data that the Government may use in its evaluation of Factor 3—Past Performance. The Government may also use data provided by the offeror elsewhere in its proposal as well as data obtained from other sources in the evaluation of this factor. Since the Government may not necessarily interview all of the sources provided by the offerors, the offeror should explain the relevance of the data provided. **IMPORTANT NOTE:** The Past Performance Volume of the offeror's proposal is due before the remainder of the proposal (see clause titled GENERAL INSTRUCTIONS TO OFFERORS paragraph (e)). The past performance submission includes two parts—Volume IV of the proposal, which is discussed here, and a Past Performance Questionnaire submission which is discussed in clause titled PAST PERFORMANCE QUESTIONNAIRES. Inasmuch as these questionnaires are submitted to the Government directly by the offeror's past performance references, the questionnaires are not part of Vol. IV and are not subject to any page limits. See clause titled PAST PERFORMANCE QUESTIONNAIRES for instructions on the Past Performance Questionnaire. Offerors shall submit relevant past performance information for itself and for each proposed teaming contractor or joint venture partner (if any) as well as any critical subcontractor (defined as a contractor whose work entails 10% or more of the total PDRR work scope). Contracts involving tasks and products which most closely resemble the work that will be accomplished on the GOES-R effort with performance within the past five years will have the most relevance. The offeror's past performance information may include data on efforts performed by other divisions or corporate management, if such resources will be used or significantly influence the performance of the proposed effort. Contracts listed may include those with the Federal Government, state and local Governments or their agencies, and commercial customers. Offerors that are newly formed entities without prior contracts or that do not possess relevant corporate past and present performance should list contracts demonstrating the past performance of all key personnel. This volume shall be organized in the following sections:

(1) Section 1—Contract Descriptions. The offeror shall submit a description contracts where it (or a partner or subcontractor as described in above) performed or is performing work as a prime contractor or subcontractor similar to the work contemplated by this RFP. For each contract, items (A) through (O) should be addressed in table form on one page, and item (P) should be addressed on one or two pages.

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The total number of contracts shall not exceed ten for the prime offeror and ten for partners and subcontractors. Each contract description is limited to 3 pages, and the section page limit is 60 pages. Landscape format is preferred. These contract descriptions shall include—

- (A) Place of performance, CAGE Code and DUNS number.
- (B) Government contracting activity, address, telephone, and fax number (and if a subcontract, the identity of the prime contractor).
- (C) Procuring Contracting Officer's name, telephone, and fax number.
- (D) Government's technical representative/COTR's name, telephone and fax number.
- (E) Government contract administration activity and the Administrative Contracting Officer's name, telephone, and fax number.
- (F) Government contract administration activity's Pre-Award Monitor's name, telephone and fax number.
- (G) Contract Number (and subcontract number, if appropriate).
- (H) Contract Type (see FAR Part 16).
- (I) Award date.
- (J) Awarded price/cost.
- (K) Final, or projected final, price/cost.
- (L) Original delivery schedule.
- (M) Final, or projected final, delivery schedule; and if terminated partially or completely, the reason for the termination.

(N) If a Fee or Incentive type contract, identify the Fee Determining Official, and provide the Fee Determination letters for the last three award periods as an annex to Section 1 (this annex with these letters will not count in the page limit of Section 1).

(O) Relevancy Matrix. The offeror shall prepare a box relating the contract being described to the GOES-R PDRR effort, similar to that shown below. The P/S column entry should be "P" or "S" to show the experience was gained as a prime contractor or subcontractor, respectively, and the H/M/L/ column entry should be "H", "M", or "L" to reflect the contractor's opinion of high, moderate, or low relevance, respectively, of the contract effort to the GOES-R PDRR Mission Capability subfactors.

PAST PERFORMANCE RELEVANCY MATRIX		
GOES-R Mission Capability Subfactor:	<u>P/S</u>	<u>H/M/L</u>
Architectural Concepts	—	—
Program Definition and Risk Reduction:	—	—
Risk Mitigation	—	—
System Engineering and Program Execution	—	—

(P) Performance and Experience Narratives. The offeror shall provide a specific narrative explanation of the contract's objectives and achievements as well as a description of how the contract is relevant to the GOES-R PDRR effort. This discussion should address and justify ratings given in the Experience Matrix for this contract (see item (O) above). The purpose of the narratives is to provide a comprehensive and integrated picture of the offeror's past performance.

(2) Section 2—Questionnaire Request Documents. So that the Government may know from whom it should expect a completed Past Performance Questionnaire (see clause titled PAST PERFORMANCE QUESTIONNAIRES), the offeror will provide a listing of the entities from whom it has requested submission of a questionnaire. This section will also include a photocopy of each such request. This section is not subject to a page limitation.

(3) Section 3—Subcontracts. A summary outline of how the effort required by the solicitation will be assigned for performance within the offeror's corporate entity and among proposed subcontractors. This section should be identical in every respect to the subcontracts submission of Volume I, Section 2.

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(e) VOLUME V—BUSINESS ARRANGEMENTS. This volume will comprise the offeror's offer, complete in every respect and ready for acceptance by the Government. This volume is not subject to a page limitation. At a minimum, it shall include the items listed below.

(1) Section 1—Model Contract Section A. This section contains the cover page of the RFP (SF-33) as converted into the offeror's proposal, with the signature of an official authorized to bind the offeror (use contract number DG133E-05-CN-____ everywhere a contract number is required here and elsewhere; the Government will provide the final digit at time of award). In order to accommodate the Government's evaluation process, the offerors are required to allow 180 days for proposal acceptance as referenced in Block 12 of the SF-33.

(2) Section 2—Model Contract Sections B-J.

(3) Section 3—Model Contract CDRL Exhibit A. A complete listing of data the offeror intends to provide or make available, using DD Form 1423. The offeror should use RFP Exhibit A as the guideline for developing its CDRL Exhibit A.

(4) Section 4—Model Contract Attachment 1 Statement of Objectives.

(5) Section 5—Model Contract Attachment 2 Integrated Master Plan (identical to Vol. II Sect. 1).

(6) Section 6 – CWBS Attachment 3 (identical to Volume II, Sect. 3)

(7) Section 7—Model Contract Attachment 4 Small, Small Disadvantaged, and Women-Owned Business Subcontracting Plan.

(8) Section 8—Performance Based Payment Schedule Attachment 5 (if proposed in accordance with FAR 52.232-28)

(9) Section 9—Government-Furnished Property. The Government does not contemplate providing GFP. However, if an offeror desires use of GFP, it shall submit a list of any GFP or Special Tooling and Test Equipment needed to perform the PDRR effort at the prime or subcontract level in this section. The offeror shall seek the written permission of the Contracting Officer or other Government representative possessing control of the property to permit its use on the PDRR contract, and shall include these permissions in this section. NOTE: It is the offeror's responsibility to arrange for the use of any Government property needed in performance. For each GFP listed, the offeror shall provide an assessment of the cost and schedule impacts of non-availability of desired GFP in this section.

(10) Section 10—Technical Data Restrictions. Any data which the offeror proposes to deliver with other than unlimited rights shall be listed in this section, along with any limitations it proposes to apply. For all such instances, include—

(A) name of party claiming rights in data (the prime or subcontractor);

(B) type of items, components, processes or computer software;

(C) description of technical data or computer software; and

(D) the rights the Government will hold.

(11) Section 11—Location Information. The name, street address, mailing address, Zip Code, county, size of business (large or small), and labor surplus area designation of all facilities performing over \$1 million of effort on the contract shall be listed in this section. The offeror should indicate where a facility has a division, affiliate, subcontractor or associate status. If more than one place of performance is listed, the percentage of work to be performed at each shall be provided.

(12) Section 12—Exceptions and Explanations. In every instance where the model contract differs from the RFP (except for providing expected standard fill-ins), the offeror shall provide a rationale for the difference and a statement expressing whether or not the difference is material (that is, whether or not the offeror's proposal is conditioned upon the Government's acceptance of the difference). This section may include any other documentation or reports required by the RFP, or any other notices or explanations from the offeror needed to explain the proposed business arrangement.

(13) Section 13—Representations and Certifications. This is RFP Section K, completed by the offeror.

(14) Section 14—Incentives, Commitments, and Warranties. If the offeror proposes any incentives, commitments, or warranties for the Government's benefit, these will be detailed here.

(15) Section 15—Export Control. Inasmuch as performance of a contract resulting from this solicitation may involve technical data which is subject to the export licensing jurisdiction of the Department of State and its International Traffic in Arms Regulation (22 CFR 120-

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130 and the U. S. Munitions List), the offeror shall describe any foreign involvement in the proposal or proposed contract performance and how it has or will comply with U. S. export control laws and regulations along with any actions which may be required by the Government.

(16) Section 16 - Organizational Conflict of Interest. The Contractor's identification and assessment of all organizational conflicts of interest or potential conflicts of interest, and the offeror's proposed mitigation of the same.

(f) VOLUME VI—PRICE PROPOSAL.

(1) Relative to the Firm Fixed Prices identified in CLIN 0100, the offeror's proposed price shall not exceed \$10 Million for the Basic Effort, \$10 Million for Option 1, and \$10 Million for Option 2. The proposed price for each period (Basic and Options) shall include production and delivery of all data and reports.

(2) The Government desires to obtain sufficient pricing information to facilitate its analysis of the offeror's proposal, and determination that the proposed price, relative to the work products proposed to be provided is fair and reasonable. To facilitate this evaluation, the Government requires the following pricing information:

- A. Offerors shall provide a cumulative total summary list of all deliverables that will be produced during the full 22 month performance period (assuming all options are exercised). This summary list shall include a brief (1-2 sentences) description of the deliverable. To the extent possible, the summary list of deliverables shall be organized by major PDRR work objective.
- B. The contractor shall provide a summary list of the work products that will be completed during each of the priced periods of performance (e.g., Basic Effort, Option 1, Option 2) including the work products that are started but not yet completed during each period. This summary list of work products, both complete and started but not yet complete, shall correspond to the IMP and IMS and the sum total of all work products for all performance periods shall equal the cumulative total list of work products identified in paragraph (1) above. To the extent possible, this summary list of work products shall be organized by major PDRR work objective.
- C. Offerors shall identify the proposed firm fixed price for the basic and each of the optional periods of performance identified in CLIN 0100 (e.g., Basic Effort, Option 1 and Option 2).
- D. Offerors shall identify the total level of effort (e.g., total number of directly productive labor hours) that will be incurred during each of the performance periods (e.g., Basic Effort, Option 1, and Option 2). Directly productive labor hours include hours incurred by prime and subcontractors.
- E. Offerors shall provide a Basis of Estimate (BOE) that explains, at a summary level, the rationale associated with how the unit price for each of the work products was developed. BOE sheets shall contain relevant documentation of both prime offeror and major subcontractor contributions/effort including significant cost items in sufficient level of detail to enable the evaluator to generally understand the basis of the proposed price.
- F. The total number of pages associated with the mandatory pricing information identified above shall not exceed 15 pages.

(3) In addition to the mandatory pricing information identified above, offerors are encouraged to provide any and all other information that it feels would facilitate the Government's analysis of its price proposal. The total number of pages associated with this additional (optional) information shall not exceed 5.

L.19 PAPER PROPOSAL INSTRUCTIONS

(a) This provision provides general guidance for preparing paper proposals as well as specific instructions on the format and content of the proposals. An offeror's proposal must include all data and information requested by the solicitation and must be submitted in accordance with these instructions. Non-compliance with these instructions may result in an unfavorable proposal evaluation. Specific page limitations for each volume are discussed below. In every respect, the electronic proposal Volumes shall be identical to the paper Volumes.

(b) Binding and Labeling. Each volume of the paper copy proposal should be separately bound in a three-ring loose-leaf binder that permits the volume to lie flat when open. Staples shall not be used. A cover sheet should be bound in each book, clearly marked as to volume number, title, copy number, RFP identification and the offeror's name. The same identifying data shall be placed on the spine of each binder. Tab indexing shall be used to identify sections. All document binders shall have a color other than red or yellow. When instructions require multiple copies of a volume, each copy shall be submitted in a separate binder.

(c) Page Format Restrictions and Limitations. Page size shall be 8.5 x 11 inches (except for foldouts). Except for the reproduced sections of the solicitation document, text font shall be Times Roman or equivalent, 11-point vertical character height, black, and single spaced. Kern modification or other techniques to reduce character size or spacing are prohibited. All text within illustrations and tables shall be Arial, legible, and at least 8 point in height. Figure titles shall be at least 10 points in height. These restrictions do not apply to the forms provided by the Government in this solicitation to be included in the GOES-R contract. No pen and ink changes are allowed. Landscape orientation is preferred. Two column presentation and use of bold face type for paragraph headings is acceptable. The page count limitation is based on the 8.5 x 11

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inch paper copy with 1-inch margins on all sides and page set up at 100%. Pages shall be numbered sequentially and consecutively. front and back printing is expected. Where pages are limited, title pages, table of contents pages, section divider tabs, and acronyms listings will not count against the limitation.

(d) Foldouts. Legible tables, charts, graphs and figures may be used wherever practicable to depict organizations, systems and layout, implementation schedules, plans, etc. These displays shall be uncomplicated, legible and shall not exceed 11 by 17 inches in size. Foldout pages shall fold entirely within the volume and counts as two pages toward the page limitations. Foldout pages may only be used for large tables, charts, graphs, diagrams and schematics, not for pages of text. All information (except for document numbers, classification markings, and page numbers) must be contained within an image area of 9 1/2 by 15 1/2 inches. The sheet of paper on which a foldout is printed may only including printing on one side.

(e) Brevity. Proposals shall be clear, concise and complete. The proposal shall provide convincing rationale, addressing how the offeror intends to meet these requirements and sufficient supporting information to allow the Government to evaluate fully the offeror's approach. Merely stating that the offeror understands and complies with this effort or paraphrasing the statements of the solicitation is inadequate. Phrases such as: "Standard procedures will be employed" and "well known techniques will be used" are inadequate. Though the Government's evaluation will include past performance data obtained independently of the proposal, offerors shall assume that the Government has no prior knowledge of their facilities and experience, and that the Government's evaluation will be based solely on the information in the proposal.

(f) Cross-Referencing. Making references to external documents (documents not included in the proposal with the expectation that the Government evaluators will read them) is prohibited, except for widely-used public documents. It is expected that an offeror's proposal will stand on its own merits. However, cross-referencing between different portions of the proposal is invited. Offerors are advised that the Government will assume that any information required by this solicitation that is not submitted has been omitted from the proposal deliberately.

(g) Submission. The offeror shall submit volumes to the address in Block 8 of the SF-33 according to the table titled "Paper Proposal Page Limits and Quantities".

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PAPER PROPOSAL PAGE LIMITS AND QUANTITIES				
<u>VOL.</u>	<u>TITLE AND DESCRIPTION</u>	<u>REFERENCE CLAUSE TITLED: PROPOSAL VOLUMES AND CONTENTS</u>	<u>PAGE LIMIT</u>	<u>QTY</u>
I	EXECUTIVE SUMMARY	(a)		6
	Sect. 1 Summary	(a)(1)	12	
	Sect. 2 Subcontracts	(a)(2)	4	
	Sect. 3 Outcomes	(a)(3)	4	
II	WORK STATEMENT	(b)		6
	Sect. 1 IMP	(b)(1)	100	
	Sect. 2 IMS	(b)(2)	80	
	Sect. 3 CWBS	(b)(3)	20	
III	TECHNICAL PROPOSAL	(c)		6
	Sect 1 Architectural Concepts	(c)(1)	125	
	Sect. 2 Program Definition and Risk Reduction	(c)(2)		
	Sect. 3 Risk Mitigation	(c)(3)		
	Sect. 4 System Engineering and Program Execution	(c)(4)	20	
	Sect. 5 A&O IMP and IMS	(c)(5)		
IV	PAST PERFORMANCE	(d)		6
	Sect. 1 Contract Descriptions	(d)(1)	60	
	Sect. 2 Questionnaire Request Documents	(d)(2)	-	
	Sect. 3 Subcontracts	(d)(3)	4	
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	Sect. 4 Model Contract Attachment 1 SOO	(e)(4)	-	
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L.20 ELECTRONIC PROPOSAL INSTRUCTIONS

(a) The offeror shall submit two electronic media copies (original and one backup) of its proposal on 5 inch CD-ROMs. Each CD-ROM shall be properly labeled with disk name, file name(s), brief description, and a cross-reference to the paper copies. To enable the Government to successfully view the proposals electronically, the offeror shall submit the proposal files in either Adobe Portable Document Format (PDF) or Microsoft Word 2003. The offeror shall generate "Thumbnails" within each PDF file, and may generate "bookmarks" with each PDF file as well. Liberal use of hypertext links within the proposal is encouraged. The use of bookmarks or additional hypertext links is for the benefit of the evaluators and will not influence the evaluation. The Integrated Master Schedule and any other schedules will be developed using software compatible with Microsoft Project 2000. The black and white proposal documents shall be formatted using an HP Laserjet 4200/4300 compatible printer driver, color proposal documents shall be formatted using a Xerox Phaser 7300 compatible printer driver to ensure pages in hard copy match the electronic copies. The offeror shall not embed sound or video files into the proposal files. In addition the offeror's proposal shall conform to the following guidelines:

(1) Limit colors to 256 colors at 1024x768 resolution; avoid color gradients.

(2) Keep embedded graphics as simple as possible; large graphics files are discouraged.

(3) Minimize the use of scanned images.

(4) Use of zipped archive files (e.g. .zip files) is allowed. For IT security purposes self-extracting archive files will not be accepted (e.g. .exe files).

(b) Each CD-ROM shall contain a cover page and a table of contents for that disc.

(c) Electronic Submission Test Period. To ensure offeror proposals are compatible with the Government's hardware configuration, offerors shall submit a test CD-ROM containing sample files to the Contracting Officer (at Block 8 of the SF-33) no later than 3:00pm EST on April 19, 2005. The Government will test the CD-ROM to determine whether the files are readable and the hypertext links properly connect the linked documents. This test is offered for each offeror's benefit, who remains solely responsible for ensuring their proposals can be accessed as required in the source selection evaluation environment.

L.21 PAST PERFORMANCE QUESTIONNAIRE

(a) The offeror shall request that each party for whom it has performed work similar to the work contemplated by this solicitation submit a past performance questionnaire to the Government (this may include work done as a prime contractor or subcontractor on a Government contract, or work wholly within the commercial sector). The questionnaire is available electronically at <http://goes.osd.noaa.gov>. Questionnaires shall also be requested from the customers of each of its primary subcontractors, teaming partners, and/or joint venture partners.

(b) The offeror is solely responsible for ensuring that questionnaires are submitted in time for use in the evaluation process, and shall make every effort to achieve this objective. Questionnaires are in accordance with the schedule outlined in Section L, clause titled General Instruction to Offerors.

(c) An offeror's request to another entity for completion of a questionnaire should—

(1) include a statement that completion of the questionnaire is needed for the offeror's participation as a competitor in a formal source selection being conducted by the National Oceanic and Atmospheric Administration (NOAA);

(2) identify the Contracting Officer using information in Block 10 of the RFP cover page SF-33;

(3) require that questionnaires be submitted directly to the Government, and not via the offeror, to the address in block 9 of the RFP cover page SF-33;

(4) specify the date by which the questionnaire should be delivered;

(5) specify that envelopes should be marked "—GOES-R Source Selection Sensitive—to be opened by addressee only—see FAR 3.104—for official use only";

(6) indicate that fax transmission is acceptable after calling the Contracting Officer or the source selection recorder at 301-713-9414 x168 but that both paper and electronic submissions are desired; and

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(7) Indicate that electronic submission via e-mail may be acceptable, but that prior coordination with the Contracting Officer is required to ensure password protection.

(d) The Government desires that the questionnaires be completed by those with most knowledge of the subject contracts, and offerors are best served by requesting questionnaires from individuals with the most knowledge. For Government contracts, the following order of precedence is suggested: Government program or project manager, Government procuring Contracting Officer or negotiator, and Government administrative Contracting Officer.

L.22 RESTRICTIONS ON BRIEFINGS

Concurrent with the release of this RFP, the Contracting Officer will notify NOAA, NOAA/NESDIS, NASA GSFC, and other Government agencies that a source selection action is in progress for the requirements of this RFP and that briefings to them by a participating offeror or their representatives on the subject of this RFP are inappropriate during the period of the source selection. Accordingly, recipients of this RFP are advised not to attempt such briefing during this period.

L.23 GOES-R SUPPORT CONTRACTORS

The GOES-R Program Office intends to rely on the services of support contractors during the evaluation of proposals. Employees of these firms will have access to all offeror's proposals. The Aerospace Corp., BAE Systems Information Technology, Mitre Corp., Integrity Applications Inc. (IAI), General Dynamics Advanced Information Systems, MIT Lincoln Laboratory, Tecolote Research Corporation, Mitretek Systems, Swales Aerospace, Chesapeake Aerospace, QSS Group Inc., Hammers Co., Honeywell Technology Solutions Inc, SGT Inc, and Muniz Engineering Inc. (MEI) employees may be used as advisers in the source selection. GOES-R support contractors and their employees are deemed to be representatives of the Government for the purpose of applying the attorney client privilege. A prospective offeror which objects to the release of its proposal information to a support contractor must notify the Contracting Officer of its objection (with supporting rationale) within fifteen (15) days of the RFP release date.

L.24 IMP, IMS, AND CWBS

(a) The PDRR Integrated Master Plan (IMP) is a contractual document and can only be changed by mutual agreement of the parties. In contrast, the PDRR IMS is a contract deliverable item under the CDRL and is to be updated "as required" (to maintain schedule flexibility) in accordance with the requirements of the offeror's CDRL—however, the offeror's first version of the IMS must be delivered with its proposal as shown in clause titled PROPOSAL VOLUMES AND CONTENTS (b)(2).

(b) Integrated Master Plan (IMP)

(1) A Work Breakdown Structure (WBS) and associated dictionary have been provided in RFP Attachment 3. The offeror's proposed CWBS shall be delivered as part of Volume II, Sect. 3 of the proposal. All tasks in the IMP shall be correlated to the CWBS proposed by the offeror. There should be a correlation between the CWBS and the IMP. The IMP and IMS shall use a numbering system that facilitates correlation of IMP and IMS.

(2) The IMP identifies the necessary Events, Significant Accomplishments, and associated Accomplishment Criteria to meet the intent of the SOO. As an event-driven document, the IMP tracks program maturity and represents up-front planning and commitment, provides the basis for lower tier planning, instills balanced design discipline, and provides a measure of progress in accomplishing GOES-R PDRR phase objectives and moving GOES-R towards the A&O phase.

(3) The IMP shall capture the core activities and relate the processes necessary to accomplish program requirements. The IMP shall contain selected Narratives to correlate the required processes to the achievement of the Significant Accomplishments and Accomplishment Criteria. The schedule for completing IMP activities is the Integrated Master Schedule (IMS). The IMP shall be a single plan for the entire core effort, including associate and/or major subcontractor activities. The SOO, IMP, IMS, and CWBS shall be consistent with each other.

(4) Events are key decision points in the program. As decision points for continued activity, Events shall clearly define expected maturity at a specific point in the program. Events normally mark the initiation or conclusion of major program activity. Events shall be logically sequenced and may include demonstration milestones, major reviews, model and simulation results, or product deliveries, and other key decision points. The Contractor shall include definitions of each Event at the beginning of the IMP. At a minimum, Events will include a System Requirements Review (SRR), System Concept Review (SCR), and Interim Preliminary Design Review (IPDR) on a total-system basis.

(5) Significant Accomplishments are completed prior to entering or exiting an Event. Within each Event, Significant Accomplishments are grouped to ensure the IMP correctly addresses the interrelationships among functional disciplines. Significant Accomplishments shall provide sufficient Government insight into the process for achieving objectives of the SOO. Significant

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Accomplishments shall be sequenced in a manner that ensures a logical path is maintained throughout the effort and tracks against Events. Each Significant Accomplishment shall be defined by one or more Accomplishment Criteria. Significant Accomplishments may include—

- (A) a desired result at a specified Event which defines system maturity;
- (B) a discrete step in a significant process; and
- (C) a description of interrelationship between different functional disciplines.

(6) Accomplishment Criteria are definitive indicators of system maturity required to declare completion of a Significant Accomplishment. Accomplishment Criteria shall be tied to the completion of detailed tasks, shall be measurable, shall avoid the use of "percent completed", and shall avoid citing completion of data reports rather than results of data reports. Accomplishment Criteria shall include the use of Technical Performance Measures and metrics to track detailed tasks in the IMS. Accomplishment Criteria may include—

- (A) the completion of specific Detailed Tasks;
- (B) the confirmation of the value of significant technical parameters;
- (C) the completion of documents which provide results of in-process verification (successfully completed analysis or other testing activities); and
- (D) the completion of critical activities required by the Contractor's program plans/operating instructions.

(7) Narratives are concise summaries which relate key processes, using flow diagrams as necessary, to the tasks to be accomplished in conducting the program. The Contractor shall identify the key processes associated with the IMP in the Narratives. Narratives shall not include rationale for using particular processes. Narratives describe the relationship between processes, products, and functional support. Narratives shall include the objective of the process and list governing documents (industry, commercial, company, or military standard).

(8) The offeror shall include as a minimum, the following Events/activities: System Requirements Review (SRR), System Concept Review (SCR), and Interim Preliminary Design Review (IPDR). The offeror shall include the following specific areas of Government interest with narratives in the IMP that detail the relevant processes needed to execute PDRR phase: Systems Engineering, Trade Studies, Requirements Development, Risk Management, Technical Program and Planning Management Processes, Design Considerations, Data Management, Mission Assurance, and Integrated Logistics Support.

(c) Integrated Master Schedule (IMS).

(1) In support of the IMP, the IMS provides a schedule for all the Events, Significant Accomplishments, and Accomplishment Criteria described in the IMP. The IMS also outlines the Detailed Tasks and the corresponding calendar schedules (dates) necessary to show how each Significant Accomplishment will be achieved. All tasks outlined in the IMS should be related to specific IMP Accomplishments.

(2) The IMP and the IMS employ a single numbering system based on the Contract Work Breakdown Structure (CWBS). The single numbering system provides traceability between the Significant Accomplishments and Accomplishment Criteria (IMP) and the Detailed Tasks (IMS).

(3) The IMS is an integrated and networked multi-layered schedule of program/project tasks. The IMS identifies all IMP Tasks, Events, Accomplishment, and Criteria and the expected dates of each. For all events Significant Accomplishments and Accomplishment Criteria provide a task number, task name, duration, predecessor tasks, start date and finish date. Illustrate the proper interdependencies of all activities, events and milestones. Define the program's critical path for the period of performance of this contract, and provide supporting narrative that explains the critical path and any unusual program aspects. Any schedule dependencies based on required Government support must be identified on the IMS by the offeror.

(d) Contract Work Breakdown Structure (CWBS). The offeror shall create a CWBS capturing its approach for the A&O phase in accordance with RFP Attachment 3. The offeror is free to tailor (add elements and/or sub elements) to better reflect its proposed approach.

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L.25 SUBCONTRACTING GOALS

For the purpose of the clause at FAR 52.219-9, the Commerce Department's standard subcontracting goals are listed below. Large businesses submitting an offer to perform the work outlined herein are responsible for developing reasonable goals and documenting them in a subcontracting plan.

Prime Contracting Goals

Small Business Category	Goal Percentage
Small Business (SB)	44.80%
Small Disadvantaged Business (SDB)	10.35%
8(a)	6.11%
Women-Owned Business (WOSB)	7.80%
Veteran-Owned Small Business (VOSB)	4%
Service Disabled Veteran-Owned Small Business (SDVOSB)	3%
HUBZone	3%

L.26 COST OR PRICING DATA

Adequate price competition is expected for this acquisition, and it is expected that this competition will demonstrate the reasonableness of each offeror's price. Accordingly, cost or pricing data or information other than cost or pricing data are not being requested with the proposal. However, should the Contracting Officer determine that adequate price competition does not exist, he or she may require each offeror to provide cost or pricing data or information other than cost or pricing data. In such case, the offeror shall provide the requested data within twenty calendar days from the date of the Contracting Officer's request.

L.27 FUNDING PROFILE

The Government desires to pay no more than \$30 Million for each PDRR contract, and desires that each offeror's pricing be no more than \$10 Million for the CLIN 0100 basic effort, no more than \$10 Million for the Option 1, and no more than \$10 Million for the Option 2.

L.28 COMPETITIVE RANGE

(a) The Government intends to award without discussions. However, if discussions are held, the following guidelines regarding the competitive range apply.

(b) Pursuant to FAR 15.306, the Contracting Officer's determination of competitive range of proposals submitted as a result of this solicitation will consider such criteria as technical evaluation/ranking of the proposal, initial cost/price proposed, and other items set forth in Section M of this solicitation. See the Section M paragraph entitled "Evaluation of Proposals" for a definitive listing of these criteria and their relative importance.

(c) Offerors are hereby advised that only those proposals determined to have a reasonable chance for award of a contract will be included in the competitive range. While every effort will be made to maintain strong competition, the Contracting Officer will also look to eliminate time consuming and unnecessary discussions with those offerors whose proposals have no reasonable chance for award. This procedure is considered beneficial to both the Government and the offerors involved since, in addition to saving further expenditure of resources, acquisition lead time should be reduced.

(d) Accordingly, offerors should submit initial proposals on their most favorable terms, from both a technical and cost/price standpoint. Again, it should be noted that proposals will not be included in the competitive range solely on the basis of technical acceptability, nor will they be included due to cost/price considerations alone.

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(e) Offerors whose proposals are not included in the competitive range will be notified as soon as practicable. Additional information relative to such proposals will be provided through debriefing of unsuccessful offerors.

L.29 GENERAL INSTRUCTIONS

(a) Point of Contact. The Contracting Officer is the sole point of contact for this acquisition.

(b) World-Wide-Web Access. The RFP documents and any amendments thereto and general program information is available through the GOES-R Electronic Library at the following World Wide Web address: <http://osd.goes.noaa.gov> and FedBizOpps at <http://www.eps.gov/>.

(c) Classified Proposals. The Government anticipates that proposals will not include classified information, with the possible exception of Past Performance material. The Contracting Officer's approval is required prior to submitting classified information, and instructions for submission will accompany the approval. Classified pages shall count against the total page limitation (if any) for the affected volume.

(d) Schedule Information. An offeror is permitted considerable latitude in scheduling its performance, but should be aware of other anticipated scheduling interdependencies, as follows—

SCHEDULE INFORMATION

<u>Event</u>	<u>Projected Schedule</u>
PDRR RFP Release	22-Mar-2005
Past Performance Volume Submittal	19-Apr-2005
Test CD-ROM Submittal	19-Apr-2005
Past Performance Questionnaire Submittal	24-Apr-2005
Proposal Submittal	10-May-2005
Discussions (if required)	12-Jul-2005
Call for Final Proposal Revisions (if required)	9-Aug-2005
Contract Award	15-Sep-2005
Post-Award Conference	Oct 2005
SRR	Feb 2006
SCR	Jul 2006
CLIN 0100 baseline PDRR effort complete	31-Aug-2006
IPDR Orals Presentation	Feb 2007
KDP C/D for A&O Phase	Nov 2006
Anticipated RFP release for A&O Phase	Dec 2006
ATP for A&O Phase	Jul 2007
System PDR	NLT Jul 2008
System CDR	NLT Jul 2009
System I&T	NLT Jan 2011
Available for Launch	NLT Sep 2012

(e) Time and Place of Delivery. The deadline for the Government's receipt of proposals is identified on the solicitation cover sheet, SF-33, in Block 9. However, the Past Performance volume of the proposal (Vol. IV) is due by 3:00pm EST on April 19th, 2005. Both of these submissions are subject to the late proposals provisions of FAR 52.215-1, Instructions to offerors—Competitive Acquisition. All times are local time in Silver Spring, Maryland. Proposal due dates apply to both the electronic and paper submission.

(f) Transmittal Letter. Include a paper transmittal letter with the proposal. The letter shall include a statement that the proposal will remain valid for no less than 180 calendar days from the date the proposal is due. This letter is not to exceed two pages; it will be used administratively and will not be evaluated. The transmittal letter also shall affirm that the electronic media by which the offer is transmitted to the Government does not contain a "virus" (a self-replicating program that has the ability to destroy data or deny services) and that the media has been checked and cleaned in its entirety with anti-virus software. The offeror shall reference the antivirus program name and version number. The letter shall also indicate the name, position title, mailing address, and phone number for persons authorized to negotiate in behalf of the offeror.

L.30 TABLE L&M-1

TABLE L&M-1	
SECTION L— INSTRUCTIONS TO OFFERORS Volume III – Technical Proposal Section 1—Architectural Concepts	SECTION M— EVALUATION FACTORS Factor 1—Mission Capability Subfactor 1—Architectural Concepts
<p>The offeror shall—</p> <p>(A) Detail and justify (i) the offeror’s reference architecture, with supporting rationale for key systems decisions, which satisfies the GOES-R GPRD and MRD; (ii) the performance provided by the architecture and how that performance satisfies the MRD and GPRD; (iii) summary technical and performance information sufficient to convey an understanding of the offeror’s reference architecture approach; and (iv) any areas where the proposed concept may be at risk of not meeting MRD or GPRD requirements.</p> <p>(B) Present and justify a high-level concept design for the key elements of the architecture including, as a minimum, satellite bus, payload accommodation, communications, including space-to-ground and services, ground stations, ground functions, ground interfaces, software, launch services, mission management, product generation, product distribution, enterprise management, and user interfaces.</p> <p>(C) Provide an end-to-end functional description of the architecture and discuss how the architecture will work from data acquisition and user request through dissemination.</p> <p>(D) Discuss any alternative architecture trade space to be investigated; the rationale for each in terms of performance, technical, schedule, and cost impacts; and plans for closing out the open trade space during PDRR and A&O performance.</p> <p>(E) Provide a life cycle cost summary to a Work Breakdown Structure (WBS) level 3 for its architectural concept and a description of the cost drivers for the concept with enough detail to demonstrate understanding of the affordability issues associated with the concept.</p> <p>(F) Describe how the architecture concept will be operated and supported and how the GOES-R architecture will be operated with the legacy GOES systems.</p> <p>(G) Detail the architecture features and standards that will make the proposed concept flexible, adaptable, and affordable with respect to accommodating changing requirements, pre-planned product improvements, ground refresh, and technology enhancements</p> <p>(H) Identify and discuss any remaining significant technical, supportability, cost, and schedule constraints related to GOES-R and plans to address these during the PDRR and A&O phases.</p>	<p>The proposal requirement is a proposed architecture that is compliant with the requirements of the solicitation, robust, flexible, and scaleable. The proposal requirement is met when an offeror demonstrates a comprehensive and sound understanding of—</p> <ul style="list-style-type: none"> ▪ GOES-R system requirements and the type of system required to satisfy them including concept designs for all major elements and interfaces of the system; ▪ GOES-R system functionality and operations necessary to achieve GOES-R requirements and compatibility with legacy architecture; and ▪ GOES-R technical, supportability, cost, and schedule constraints and issues and how these constraints and issues are addressed in the reference architecture and architectural trade space.

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Section 2—Program Definition and Risk Reduction	Subfactor 2—Program Definition and Risk Reduction
<p>The offeror shall—</p> <p>(A) Discuss the proposed content and deliverables for the System Requirements Review (SRR), System Concept Review (SCR), and Interim Preliminary Design Review (IPDR).</p> <p>(B) Identity the risk areas of the program development appropriate for addressing during the PDRR phase. Discuss plans and outputs for simulations or demonstrations to be performed during PDRR that will assure the Government that these risks will have been mitigated sufficiently by the end of contract performance to proceed into the A&O phase.</p> <p>(C) Describe the approach as well as the specific processes, methodologies, major tasks, resources, techniques, tools, and criteria that will be used during PDRR to (i) address the SOO objectives; (ii) provide data deliverables; and (iii) define and perform trade studies to refine the architecture concept into suitably mature concept for the reviews listed in (A) above.</p> <p>(D) Identify which elements of the Mil-Standard 1521B criteria for a Preliminary Design Review (PDR) (i) will be accomplished for the IPDR; (ii) will be accomplished after IPDR and prior to the end of the option period; and (iii) will remain to be completed in the future A&O contract.</p> <p>(E) Describe the key internal and external interfaces for the architectural concept and describe the methodology, including interaction with Government organizations and other contractors, to develop appropriate interface requirements specifications during PDRR.</p> <p>(F) Describe the process to develop GOES-R system and segment, interface, and software configuration item functional and performance specifications including (i) analysis and allocation of GOES-R GPRD/MRD mission requirements to various segments and subsystems, and (ii) requirements traceability and verification.</p> <p>(G) Provide a specification documentation tree addressing how existing specifications (such as the instrument GIRDs and UIIDs) will be incorporated.</p> <p>(H) Describe the approach to update requirements and requirements traceability in response to evolving concept definition, requirements, and interfaces.</p>	<p>The proposal requirement is a scope and content of contract that satisfies the purposes of PDRR; namely, the maturing of the program definition and the reduction of risks so that the Government can confidently enter into the A&O shortly after the completion of the PDRR phase. The proposal requirement is met when an offeror describes a sound and comprehensive—</p> <ul style="list-style-type: none"> • system development progression approaching a Preliminary Design Review (PDR) maturity, as reflected in the proposed contents for the System Requirements Review (SRR), System Concept Review (SCR), and Interim Preliminary Design Review (IPDR); • approach for satisfying SOO objectives, providing suitable deliverables, and accomplishing analyses and trade studies sufficient to address GOES-R constraints and issues; • approach for GOES-R specification and interface control document development, traceability, verification, and maintenance; and • understanding of program risks based on detailed plans for risk reduction simulations/ demonstrations during PDRR which will provide the Government with confidence to proceed to the A&O phase with projected first launch in 2012.

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Section 3—Risk Mitigation	Subfactor 3—Risk Mitigation
<p>The offeror shall—</p> <p>(A) Identify and discuss life-cycle GOES-R risks areas and plans for managing and mitigating them during the PDRR and A&O phases, including cost and performance trades and analyses and recommended criteria for executing risk management and mitigation plans for GOES-R.</p>	<p>The proposal requirement is a life-cycle risk management and mitigation approach to the GOES-R system development that is comprehensive and sound, addressing the key risks that must be addressed to achieve mission success (such as technology, affordability, schedule, integration, and produceability). The proposal requirement is met when an offeror—</p> <ul style="list-style-type: none"> • accurately identifies and justifies the life-cycle risk aspects of the GOES-R system development and provides a comprehensive and sound mitigation strategy for each; and • demonstrates that a comprehensive and sound risk management and mitigation process will be developed and implemented (including proposed simulations and demonstrations) during the PDRR and A&O phases.
Section 4—System Engineering and Program Execution	Subfactor 4—System Engineering and Program Execution
<p>The offeror shall—</p> <p>(A) Describe capabilities to implement all GOES-R program segments from PDRR through A&O (such as staffing, key personnel, facilities, tools, simulations, and necessary processes (including systems engineering, design, algorithm development, manufacturing, integration, and logistics)).</p> <p>(B) Provide a short description of the experience and expertise of persons who will occupy key management, technical, business, and subcontractor positions.</p> <p>(C) Describe Cost As an Independent Variable (CAIV) process as it relates to optimizing GOES-R performance within budget and schedule constraints.</p> <p>(D) Describe the maturity of its processes that will be used in the PDRR and A&O phases, describe how these processes might change during the GOES-R life cycle, and provide data to support the maturity or quality of its processes.</p> <p>(E) Discuss the proposed validation and verification approach and the approach for developing a Government/Contractor combined test program.</p>	<p>The proposal requirement is a sound approach to systems engineering and program execution and the ability to identify and balance performance, cost, and schedule objectives for entry into and through the GOES-R A&O phase. The proposal requirement is met when an offeror adequately describes and substantiates—</p> <ul style="list-style-type: none"> • a capability for performing all aspects of the GOES-R program (this includes, but is not limited to, provision of staffing (which includes qualified engineers and applied scientists to manage the development and operational implementation of sensors and scientific algorithms), facilities for production of space and ground segments, and maturity of processes needed to execute this program (including systems engineering, design, algorithm development, manufacturing, integration and logistics processes); • an understanding of CAIV to achieve affordable system performance; and • a capability to develop a comprehensive system-level integrated logistics support plan addressing supportability, training, technical documentation, and packaging, handling, safety, and transportation, and test and evaluation (T&E) during the A&O phase.

SECTION M
EVALUATION FACTORS FOR AWARD

M.1 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):
<http://www.arnet.gov/far/> AND http://oam.ocs.doc.gov/capps_car.html
(End of clause)

M.2 52.217-5 EVALUATION OF OPTIONS (JUL 1990)
(Reference)

M.3 GENERAL BASIS FOR AWARD

(a) The Government will conduct this competitive negotiated acquisition in accordance with FAR Subpart 15.3, Source Selection. The Government contemplates awarding up to three contracts resulting from this solicitation, but reserves the right to make more, fewer, or no awards. Obtaining best value is the Government's intention.

(b) Price will be a part of the decision. However, each evaluation factor other than price, considered individually, is more important than price—and all non-price factors, considered together, are significantly more than price. Offerors are encouraged to exceed minimum technical, performance, reliability and other stated Government requirements wherever feasible, provided a balanced approach is considered with respect to program schedule, risk and cost.

(c) The four evaluation factors are discussed in the clause titled “Evaluation of Proposals.” In addition to these, the award decision will include the following general considerations that will be reviewed for acceptability but not rated. Information in Volume V of the offeror’s proposal will be used in the review of these general considerations. These are—

- (1) Terms and Conditions (an evaluation of the offeror's proposed terms and conditions to ascertain business prudence and consistency with the terms and conditions intended within the solicitation);
- (2) Subcontracting Plan (a review of the offeror's Small, Small Disadvantaged, and Women-Owned Business Subcontracting Plan relative to the opportunities and proposed goals for participation in the resulting contract by small businesses, small disadvantaged businesses, women-owned businesses, and Historically Black Colleges and Universities and Minority Institutions);
- (3) Proposed incentives, commitments, and warranties offered by the Contractor for the Government's benefit during the life of the contract.
- (4) Plan for mitigating Organizational Conflicts of Interest
- (5) Responsibility of the offeror as defined in FAR Part 9.

(d) The Government intends to award without discussions; therefore, offerors are encouraged to reflect their best effort in their initial proposals.

M.4 EVALUATION OF PROPOSALS

(a) Offerors will be evaluated based on the evaluation factors listed below. Factors 1, 2, and 3 are further subdivided into subfactors, as explained in paragraph (b) below. Factors 1, 2, and 3 are of equal importance and each is more important than price (see paragraph (b) of the clause titled “General Basis for Contract Award”).

- Factor 1—Mission Capability
- Factor 2—Proposal Risk
- Factor 3—Past Performance
- Factor 4—Price

(b) Within Factor 1—Mission Capability, there are four subfactors (listed below) which will be evaluated separately. These subfactors will also be used to evaluate Factor 2—Proposal Risk and Factor 3—Past Performance. Subfactor 2 is the most important subfactor; the other three subfactors are of equal importance.

- Subfactor 1—Architectural Concepts
- Subfactor 2—Program Definition and Risk Reduction
- Subfactor 3—Risk Mitigation

SECTION M
EVALUATION FACTORS FOR AWARD

Subfactor 4—System Engineering and Program Execution

(c) Factor 1—MISSION CAPABILITY

(1) The objective of this factor is to assess the offeror's ability to satisfy the SOO through a comprehensive and sound program approach. This includes the application of system engineering principles to define, design, and implement a total end-to-end GOES-R system concept which meets the requirements outlined in the GOES-R GPRD and MRD. Key elements include the approach to alternate architectural solutions, Space/Launch Segment, Mission Management Segment (MMS), and Product Generation and Distribution Segment (PGDS) definition and demonstrations, risk mitigation, interface definition, planning, costing, and business approaches deemed necessary to prepare to enter the A&O phase. Information in Volumes II and III of the offeror's proposal will be used in the Mission Capability evaluation. The evaluation criteria for the Mission Capability subfactors is found in Table L&M-1.

(2) Rating of Subfactors. For each Mission Capability Subfactor, a rating will be assigned that depicts how well the proposal meets the solicitation requirements. This assessment criterion addresses the offeror's understanding of, approach to satisfying, and complying with the requirements of the solicitation. The subfactor ratings will not be rolled-up into an overall factor rating. The Mission Capability ratings are shown in the table below—

Mission Capability Ratings		
Color	Rating	Description
Blue	Exceptional	Exceeds specified minimum performance or capability requirements in a way beneficial to the Government; proposal must have one or more strengths and no deficiencies to receive a blue.
Green	Acceptable	Meets specified minimum performance or capability requirements delineated in the Request for Proposal; proposal rated green must have no deficiencies but may have one or more strengths.
Yellow	Marginal	Does not clearly meet some specified minimum performance or capability requirements delineated in the Request for Proposal, but any such uncertainty is correctable.
Red	Not Acceptable	Fails to meet specified minimum performance or capability requirements; proposal has one or more deficiencies. Proposals with an unacceptable rating are not awardable.

(d) Factor 2—PROPOSAL RISK

(1) The objective of this factor is to assess the risk that the offeror's proposed approach for the requirements of the solicitation will cause significant disruption of schedule, increased costs, or degraded performance. Information in Volumes II and III of the offeror's proposal will be used in the Proposal Risk evaluation.

(2) The Proposal Risk evaluation uses the same subfactors as the Mission Capability evaluation. For each of the subfactors, a proposal risk rating will be assigned that characterizes the risk associated with the offeror's proposed approach in accomplishing the requirements of this solicitation during the PDRR contract. The assessment will result in Proposal Risk ratings based on the likelihood or potential for disruption of schedule, increased cost, degradation of performance, increased Government oversight, or unsuccessful contract performance. The subfactor ratings will not be rolled-up into an overall factor rating. The Proposal Risk ratings are shown in the table below—

Proposal Risk Ratings	
Rating	Description
High	<i>Likely to cause significant disruption of schedule, increased cost or degradation of performance. Risk may be unacceptable even with special contractor emphasis and close Government monitoring.</i>
Moderate	Can potentially cause disruption of schedule, increased cost, or degradation of performance. Special contractor emphasis and close Government monitoring will likely be able to overcome difficulties.
Low	Has little potential to cause disruption of schedule, increased cost or degradation of performance. Normal contractor effort and normal Government monitoring will likely be able to overcome any difficulties.

SECTION M
EVALUATION FACTORS FOR AWARD

(e) Factor 3—PAST PERFORMANCE

(1) The objective of this factor is to assess the Government's confidence in the offeror's proposal based on the offeror's past performance on relevant management, cost, and technical experience with the life-cycle development of similar systems. Contracts involving tasks and products which most closely resemble the work that will be accomplished on the GOES-R effort with performance within the past five years will have the most relevance. Similar systems includes, but is not limited to, space-based remote sensing systems, distributed ground and communications architectures, large software development contracts, multi-satellite constellations, taskable satellite systems, on-orbit operations, and producibility/production experience of the offeror and the offeror's participating divisions and proposed subcontractors. Experience of the offeror as a subcontractor on similar efforts, commercial work, and independent research and development (IR&D) is also relevant. The Government will consider an offeror's demonstrated record of contract compliance in supplying products and services that meet users' needs, including cost and schedule. Information in Volume IV of the offeror's proposal, along with any other past performance information available to the Government, will be used in the Past Performance evaluation.

(2) The Past Performance evaluation will occur in two steps. First, a performance risk assessment will be made on each of the Mission Capability subfactors based on the degree of doubt from past performance that exists regarding the offeror's likelihood to successfully perform the required effort as promised. Based on these subfactor assessments, an overall Past Performance confidence assessment encompassing the offeror's proposal as a whole will be assigned. The Past Performance confidence assessments are shown in the table below—

Past Performance Confidence Assessments	
Rating	Description
High Confidence	Based on the offeror's performance record, the Government has high confidence the offeror will successfully perform the required effort. "High Confidence" indicates there is essentially no doubt that the offeror will successfully perform the required effort.
Significant Confidence	Based on the offeror's performance record, the Government has significant confidence the offeror will successfully perform the required effort. "Significant Confidence" indicates there is little doubt that the offeror will successfully perform the required effort.
Satisfactory Confidence	Based on the offeror's performance record, the Government has confidence the offeror will successfully perform the required effort. Normal contractor emphasis should preclude any problems.
Unknown Confidence	No performance record is identifiable. Offerors without a record of relevant past performance or for whom information on past performance is not available will not be evaluated favorably or unfavorably.
Little Confidence	Based on the offeror's performance record, substantial doubt exists that the offeror will successfully perform the required effort.
No Confidence	Based on the offeror's performance record, extreme doubt exists that the offeror will successfully perform the required effort.

(f) Factor 4—PRICE. The offeror's Price Proposal, including options, will be evaluated using price analysis to determine if it is fair and reasonable. The proposal will be evaluated to determine the extent to which proposed prices are reasonable relative to the types, quantities, qualities, and performance/delivery schedules of all products and services being proposed in all volumes of the proposal, including the Terms and Conditions, incentives, commitments and warranties associated with the offer.

EXHIBIT A

NOAA GOES-R Solicitation No.: DG133E-05-RP-1034

March 22, 2005

Contract Data Requirements List (CDRL)

The offeror is required to propose the recommended contractual data required for delivery to the Government in response to this RFP. The offeror should prepare a Contract Data Requirements List using DD Form 1423 format. In addition, the contractor is required to identify all other data being made available to the government and a proposed method of availability (such as via a data accession list). The government's interest in subjects and/or types of data is reflected below, but this list is not intended to be mandatory or all-inclusive.

The Contractor is not authorized to provide copies of any data to any outside agency other than GOES-R Program Office without approval of the Contracting Officer, except as may be required by law.

To the maximum extent practicable, data deliverables shall be submitted electronically to the Contracts Officer at Robert.Ransom@NOAA.gov (TBR). If hard copy or media delivery is required, the delivery address is:
NOAA/NESDIS/OSD

Attn: Robert Ransom,
Rm 6216, SSMC1
1335 East West Highway
Silver Spring, MD 20910

CDRL	Title	DID Reference	Submission – see notes at bottom of table *
A001 Notes:	Data Accession List	DI-MGMT-81453	ATP (I): monthly (U)
1. Including identification of material available to substantiate maturity of, and identify guiding company and/or industry policies and standards for, processes such as Program Management, Business Management, Subcontract Management, Systems Engineering, Software Development, Mission Assurance, Risk Management, Configuration Management, etc.			
A002 Notes:	PDRR Integrated Master Schedule (IMS)	DI-MISC-81183	ATP (I): monthly (U)
1. Detail at a low enough Contract Work Breakdown Structure (CWBS) level to clearly illustrate the dependencies among the events, accomplishments, and criteria in the IMP The IMS shall support the following PDRR milestones: (assume 15 Sep 05 ATP for PDRR base period with 6 months duration; Option 1 ATP (O1) NLT 15 Mar 06 with 6 months duration; Option 2 ATP (O2) NLT 15 Sep 06)			
<ul style="list-style-type: none"> - Post Award Conference — ATP plus one week - Requirements TIM – ATP plus two weeks - PMR meetings — ATP plus 1.5 months <ul style="list-style-type: none"> — ATP plus 3 months — ATP plus 5.5 months — O1 plus 1 month — O1 plus 2.5 months — O1 plus 5 months - SRR — ATP plus 4.5 months - SCR — O1 plus 4 months - IPDR — O2 plus 5.5 months 			
A003 Notes:	Life Cycle Cost Report	DI-FNCL-80449 and DI-FNCL- 80448	ATP+1.5 months (P) +5.5 months (I) O1+2.5 months (F)
1. For DI-FNCL-80449 <ul style="list-style-type: none"> a. Delete all references to design to cost (DTC) b. All LCC reports shall follow the format specified for a Cost, Analysis Requirements Document (CARD) as defined by DOD-R-5000.4-M section C1.5 as much as practicable. The LCC shall be a fully documented cost estimate including a description of estimating methodologies used. c. In 10.2.5: Replace: "If the WBS is not specified, the WBS used shall conform to the guidelines in MIL-STD-881 and 			

<p>DODI 5000.33” with “The CWBS shall conform to the outline in the WBS (deviation are allowed if fully justified).”</p> <p>d. In 10.2.7: Delete I.E., Validation, Full Scale Engineering Development (FSED), Production, and Operations and Support (O&S).</p> <p>2. For DI-FNCL-80448</p> <p>a. In 7.2: Replace Air Force Regulation 173-11 with GOES-R Acquisition Phases. Replace Defense Acquisition Board (DAB) with Acquisition Review Board (ARB)</p> <p>b. In 10.2.5: Replace: “If the WBS is not specified, the WBS used shall conform to the guidelines in MIL-STD-881 and DODI 5000.33” with “The CWBS shall conform to the outline in the WBS (deviation are allowed if fully justified).”</p> <p>c. In 10.2.7: Delete references to Validation, Full Scale Engineering Development Production, and Operations and Support (O&S). Add “(by fiscal year required)” between the words phased and estimate.</p> <p>d. In 10.2.8.2: Substitute the words Integrated Master Schedule (IMS) for Master Integrated Program Schedule.</p>			
A004	Contract WBS		<p>ATP+1.5 months (P) +5.5 months (I) O1+2.5 months (F)</p>
<p>Notes:</p> <p>1. Contractor WBS shall be consistent with the Program WBS (WBS) with any changes and/or additions identified along with rationale for change.</p>			
A005	Acquisition & Operations (A&O) IMP		<p>ATP+3 months (P) +5.5 months (I) O1+2.5 months (F)</p>
<p>Notes:</p> <p>1. Contractor format acceptable.</p> <p>2. Submittals shall include projected organization charts, planned major program functional organizations and interfaces, a narrative analysis of technical plans and challenges, and highlight areas of major focus of effort.</p> <p>3. The IMP shall include a narrative description of all major program processes. Processes should include, as a minimum, Program Management, Systems Engineering, Risk Management, Configuration Control, Mission Assurance, Software Development, Instrument Transition and Management, Training, Validation and Verification, Integration and Test, Launch Integration and Operations, and Business Management. Summary descriptions with references to other submitted plans are acceptable. Narrative should describe interrelationships between processes and who controls and who participates in processes. Government participation in and/or information received from processes should also be described.</p> <p>4. Business Management narrative should include discussion of Integrated Baseline establishment, tracking and change process, cost performance reporting including earned value management system, contract funds status reporting, and sub contract management, etc.</p> <p>5. Management narrative should describe plans for supporting electronic data environment including what data (e.g., programmatic, technical, master action item data base, etc), data latency, and plans for government access to other than finalized and contractor formally approved material.</p>			
A006	A&O IMS	DI-MISC-81183	<p>ATP+3 months (P) +5.5 months (I) O1+2.5 months (F)</p>
<p>Notes:</p> <p>1. IMS should include the following milestones:</p> <ul style="list-style-type: none"> - Post Award Conference - Integrated Baseline Review - Preliminary Design Reviews - Critical Design Reviews - Major subsystem deliveries to I&T - Test Readiness Reviews - Pre-Environments Reviews - Functional Configuration Audit - System Verification Review - Pre-ship Reviews - Ground Segment Readiness Review - Launch Readiness Reviews - Mission and Flight Operations Reviews - Mission Readiness Reviews - Launch Independent Readiness - Physical Configuration Audit 			

- Operational Readiness Reviews - etc 2. Government control will include all of the above, as applicable, for the System, Space and Ground segments, elements and subsystems.			
A007	Performance Specifications – General Specifications for GOES-R System, Space and Ground Segments, Elements and Subsystems , and principal hardware and software configuration items	DI-SDMP-81465	SRR-1 month (I) SCR-1 month (U) O1+5 Months (F) IPDR-1month (U)
Notes: 1. The specification(s) delivered to support SRR will describe proposed GOES-R functional baseline including required functions and performance, the environments in which it must operate, interface and interchange characteristics, and the criteria for verifying compliance. 2. The specification(s) delivered to support SCR will describe proposed GOES-R functional baseline and preliminary allocated baseline including functions and performance, the environments in which it must operate, interface and interchange characteristics, and the criteria for verifying compliance 3. The specification(s) delivered to support IPDR will describe the preliminary GOES-R allocated baseline including functions and performance, the environments in which it must operate, interface and interchange characteristics, and the criteria for verifying compliance 4. MIL-STD-961E dated 1 Aug 2003 (untailored) is the compliance document. Contractor tailoring of content and format is encouraged. 5. Provide additional delivery in DOORS format (DOORS database project archive file [* .dpa] and Document Module file [* .dma] on ISO 9660 CD-R, or equivalent). Required DOORS version 7.1 date 10 May 2004.			
A008	Interface Requirements Specifications (IRS)	DI-IPSC-81434A	SRR-1 month (I) SCR-1 month (F) IPDR-1month (U)
Notes: 1. IRS will be developed and delivered to support functional and allocated baseline development and description. 2. IRS will be consistent with applicable GIRD, UIIDs and external GOES-R interfaces with any proposed additions and/or changes specifically identified and rational provided in supporting material. 3. Maturity of instrument interface specifications will be consistent with maturity of available instrument data			
A009	Operations Concept	DI-IPSC-81430A	SRR-1 month (I) SCR-1 month (F) IPDR-1month (U)
Notes: 1. Opscon shall address all aspects of GOES-R operations including pre-launch, launch, early orbit, checkout, storage, initialization, seasonal, and day-to-day operations. 2. In addition to DID requirements, Opscon shall address: - Plans for calibration, validation, and data quality maintenance - Training and maintenance approaches			
A0010	Design Review Data Package (SRR)	DI-ILSC-81335T	SRR - 1 month
Notes: 1. The Design Review Data Package (DRDP) is required by the government to permit adequate preparation for each design review prior to the review meeting 2. MIL-STD-1521B Appendix A (tailored) is for compliance. Contractor format and additional suggestions for tailoring acceptable. 3. To support trade studies and SRR preparations a requirements TIM will be held to ensure contractor understanding of GPRD, MRD, CONOPS and other applicable requirements. 4. For SRR (In addition to the requirements of the tailored MIL-STD-1521B Appendix A include Operational Concept Special topics as requested by Government Payload support requirements description and impacts Requirements traceability documentation addressing GPRD, MRD, and Government CONOPS to contractor documents 5. MIL-STD-1521B Tailoring 10.1 Delete “Are normally conducted during the system concept exploration or demonstration and validation phase. Such reviews may be conducted at any time but normally”.			

10.1 Delete “Operational/maintenance/training”. 10.1 Delete “Facility configuration items, manufacturing considerations, personnel, and human factors.” 10.2 Replace “Statement of Work” with Integrated Master Plan. 10.3b Should read: “Functional architecture and breakdown. 10.3c Should read: “Preliminary requirements allocation to HWCI/CSCI”. 10.3d Should read: “System/cost affordability analysis.” 10.3f Add (Refer to ANSI/EIA-STD-632 or NASA Systems Engineering Handbook or INCOSE Systems Engineering handbook.). 10.3g Should read: “Support concepts and trades”. 10.3i Should read: “System interface studies/trades”. 10.3h Delete “armament integration” and “(including nuclear)” 10.3j Should read: “Specification development”. 10.3k Should read: “Risk Analysis and Technology Readiness”. 10.3m Should read: “Produceability Analysis. 10.3n Should read: “Technical Performance Measurement Development, Tracking”. 10.3s Delete 10.3t Delete. 10.3u Should read: “Life Cycle Cost”. 10.3v Should read: “Manufacturing Concepts”. 10.3w Should read: “Manpower/personnel concepts”. 10.3x Should read: “Milestone schedules/IMP”. 10.3y Add: M&S planning. 10.3z Add: Interface Requirements Development. 10.3.1.3 Replace Logistics with Support. 10.3.1.4 Delete subparagraphs A through C.			
A011	Payload Transition/Management Plan	DI-MISC-80508T	ATP+5.5 months (I) O1+2.5 months (F)
Notes:			
A012	Verification, Test, and Analysis Strategy	DI-MISC-80508	ATP+5.5 months (I) O1+2.5 months (F)
Notes:			
1. MIL-STD-1540D is the compliance/reference documented			
2. Includes Test and Evaluation Master Plan (TEMP)			
A013	Risk Management Plan	DI-MISC-80508	ATP+5.5 months (I) O1+2.5 months (F)
Notes:			
1. ISO-17666 dated 01 Apr 2003 (untailored) is the compliance document.			
2. NPR 8000.4 is reference document.			
3. The contractor will provide to the government detailed description and plan of the risk management process that will be used to manage and reduce performance, cost, and schedule risks for GOES-R. The plan will include, but is not limited to:			
a) The approach, processes, methodologies, major tasks, tools, and criteria that will be used to perform risk planning, assessment (identification, analysis, and prioritization), handling (mitigation), and monitoring activities, and provide a description of the approach used to define the responsible organization(s) (government or contractor) for identified risks.			
b) The approach that will be used to integrate the contractor GOES-R risk management process with the Government risk management activities. This includes the structure of the Risk Management Process as implemented by both the prime and all subcontractors. Identify key personnel involved with Risk Management and their proximity to program decision-making authorities.			
c) The process, tools, and criteria used to allocate resources, the process used to develop risk mitigation methods, and the processes and criteria used to evaluate the efficacy of the risk mitigation activities and to make any required changes to them.			
d) The approach used in identifying and establishing the quantified acceptable risk levels that need to be achieved consistent with major GOES-R milestones.			
e) Description of the processes, tools, and criteria that will be used to monitor and assess risk.			
f) Describe which of the risk management process functions will be monitored, the tools and criteria that will be used to assess them, and the process by which improvements will be made.			
g) Details regarding the approach to integrating the risk management process with the program management, systems engineering, and software development processes.			
A014	Software Architecture	DI-MISC-80508T	ATP+5.5 months (I) O1+2.5 months (F)

Notes: 1. NPR 7120.5 NASA Software Engineering Requirements is for reference			
A015	Software Development Plan	DI-IPSC-81427A	ATP+5.5 months (I) O1+2.5 months (F)
Notes: 1. Contractor format is acceptable. 2. The Software Development Plan (SDP) describes a developer's plans for conducting a software development effort. The term "Software development" is meant to include "new" development, modification, reuse, reengineering, maintenance, and all other activities resulting in a software product. The SDP provides the means for insight into, and a tool for monitoring the processes to be followed for software development, the methods to be used, the approach to be followed for each activity, and project schedules, organization, and resources. This SDP shall be compliant with EIA/IEEE J-STD-016-1995, Standard for Information Technology Software Life Cycle Processes Software Development Acquirer-Supplier Agreement as tailored. Contractor recommendations on proposed tailoring are acceptable. The SDP shall be an integrated plan covering the software development activities for all significant software team members throughout the GOES-R development. 3. Tailor Section 4, Content, as follows: Paragraph 4.1: in the second sentence, replace "... concerning this topic, identifying planned builds, ... activities to be performed in each build." with "concerning this topic. Identify the software developmental life cycle model(s) to be used, including: planned builds, if applicable; their build objectives; and the software development activities to be performed in each build." Paragraph 4.2.3.1: Add the following note to the end of the paragraph. Delete paragraph 4.2.3.2. Paragraph 4.2.4.4: replace "Assurance of other critical requirements" with "Assurance of other critical requirements, including the approach to meeting reliability, maintainability, and availability requirements allocated to software" Paragraph 5.19.2: replace "Software management indicators, including indicators to be used" with "Software metrics, including specific metrics to be used (that is, collected, reported, analyzed, used for decision making and actions, and made available to the customer)" Paragraph 6: replace "This section shall present" with "This section shall present the schedule and activity network for Phase A work only, consistent with the IMP/IMS. It is intended that the contractor will complete this paragraph at a later date for work to be performed in subsequent contract phases." Delete paragraphs 6.a and 6.b. Paragraph 7.2.a replace "Personnel resources, including:" with "Personnel resources for Phase A only, including:" 4. The SDP shall contain the data specified in DI-IPSC-81427 plus the following additional data: <ul style="list-style-type: none"> • Methods for developing, testing and transitioning scientific product algorithms to operational product algorithms • The extent to which the software methods and processes used in this contract are defined at the corporate level • Performance metrics and historical data associated with the software methods and processes specified in this SDP • Maturity of the methods and processes specified in this SDP – including the basis for this conclusion • Description of the software development and integration environment and associated tools, and how it relates to each major aspect of category of software: flight software, mission management software, product generation software, product distribution software and support software (such as enterprise management, training, and simulation software) • Maturity of the software development and integration environment and associated tools – including the basis for this conclusion • Responsibilities for Software Quality Assurance, including the roles if any of independent quality assurance personnel. • Indication of whether cited standards are industry standards, corporate standards, etc. 			
A016	Integrated Logistics Support Plan	DE-ILSS-80095	ATP+5.5 months (P) O1+2.5 months (F)
Notes: Delete reference to DOD-STD-1702 (NS). 10.9.2.3: Identify NOAA maintenance management requirements. Delete reference to TM 738-750; AFR 66-1; NAVSECGRUINST 4100.1; and Temo-OA0090-010.			
A017	Systems Engineering Management Plan	DI-MGMT-81024	ATP+5.5 months (I) O1+2.5 months (F)
Notes: 1. NASA System Engineering Handbook, INCOSE Systems Engineering Handbook, and SMC Systems Engineering Handbook are reference documents.			

A018	Mission Assurance Plan	Contractor Format	ATP+5.5 months (I) O1+2.5 months (F)
Notes: 1. Contractor plans shall be consistent with GOES-R Mission Assurance Plan and address the following topics: - Configuration Management - Reliability Assurance - Problem/Failure Tracking and Reporting - Quality Assurance - Contamination Control - Material and Processes Control - Electronic Parts Control - Software Quality Assurance - System Safety - Design Verification - etc			
A019	Configuration Management Plan		ATP+5.5 months (I) O1+2.5 months (F)
Notes: 1. EIA 649 is reference standard 2. The deliverable shall be consistent with the reference document and the GOES-R Configuration Management Plan, and submitted in accordance with the contractor's internal standards. 3. Submittal is to clearly describe process for development of configuration baselines, interface control, and configuration change management, in accordance with the reference document, Pars 5.2.5.2, 5.2.7, and 5.3. Details of software and digital data CM discipline and change control are to be delineated, in accord with Par 5.6. Makeup of the Change approval boards is to be defined, together with technical and administrative planning to ensure rapid, accurate change proposals, and quick decision making at all levels. 4. The "customer" as referred to in EIA-649 is the GOES-R Program Office. The contractor's plan shall describe how the contractor's process integrates with the Government configuration process and specifically identify thresholds for levels of internal contractor decision making and referral to Government for decision.			
A020	Modeling and Simulation Plan	Contractor Format	ATP+5.5 months (I) O1+2.5 months (F)
Notes: 1. Plan shall describe contractor approach to develop and use simulation and modeling capabilities to support: - Design, testing, analysis, and verification activities - Operations - Training - Algorithm upgrades and operational integration - Future System planning activities			
A021	Systems Safety Program Plan	DI-SAFT-81626	O1+2.5 months (P)
Notes: 1. MIL-STD-882C is the compliance document for this CDRL. The Government has chosen not to tailor the DI-SAFT-80101 or MIL-STD-882C but recognizes that there may be requirements in either that are cost or risk drivers and the contractor is encouraged to recommend tailoring as they see appropriate.			
A022	Systems Safety Preliminary Hazard Analysis	DI-SAFT-80101	O1+2.5 months (F)
Notes: 1. MIL-STD-882C is the compliance document for this CDRL. The Government has chosen not to tailor the DI-SAFT-80101 or MIL-STD-882C but recognizes that there may be requirements in either that are cost or risk drivers and the contractor is encouraged to recommend tailoring as they see appropriate.			
A023	Information Systems Security Plan	DOC IT Security Policy	ATP+1 months (I) +5.5 months (F)
Notes: 1. Scope of Plan shall include PDRR and A&O - Initial submittal shall address PDRR provisions - Final shall provide concept for A&O Phase			

2. Contractor format acceptable			
A024	Design Review Data Package (SCR)	DI-ILSC-81335T	SCR - 1 month
<p>Notes:</p> <p>1. The Design Review Data Package (DRDP) is required by the government to permit adequate preparation for each design review prior to the review meeting</p> <p>2. MIL-STD-1521B Appendix B (tailored) is for compliance. Contractor format and additional suggestions for tailoring acceptable.</p> <p>3. For SCR (In addition to the requirements of the tailored MIL-STD-1521B this report will include)</p> <p style="padding-left: 40px;">Affordability and/or CAIV activities</p> <p style="padding-left: 40px;">Special topics as requested by Government</p> <p style="padding-left: 40px;">Requirements traceability documentation addressing GPRD, MRD, and Government CONOPS to contractor documents</p> <p>4. MIL-STD-1521B tailoring:</p> <p style="padding-left: 40px;">20.1 Delete "manufacturing methods/process selection</p> <p style="padding-left: 40px;">20.1f (1) Should read: "Prime item performance specification".</p> <p style="padding-left: 40px;">20.1f (2) Delete.</p> <p style="padding-left: 40px;">20.2 Delete "as the final...these requirements)".</p> <p style="padding-left: 40px;">20.2.3b Replace "subsystem/component hardware proofing" with "Plans for proofing subsystem/component hardware.</p> <p style="padding-left: 40px;">20.2.4 Delete</p> <p style="padding-left: 40px;">20.3.1d Should read: "System/Cost affordability".</p> <p style="padding-left: 40px;">20.3.1e Add: Refer to ANSI/EIA-STD-632 or NASA Systems Engineering Handbook or INCOSE Systems Engineering handbook.</p> <p style="padding-left: 40px;">20.3.1f Delete "including nuclear"</p> <p style="padding-left: 40px;">20.3.1i Replace Logistics Support Analysis with Design for Supportability.</p> <p style="padding-left: 40px;">20.3.1m Delete (including packaging and handling), replace with "risks".</p> <p style="padding-left: 40px;">20.3.1q Delete.</p> <p style="padding-left: 40px;">20.3.1r Should read: "System Growth Capability/Design Flexibility".</p> <p style="padding-left: 40px;">20.3.1s Should read: "Risk Analysis and Technology Readiness".</p> <p style="padding-left: 40px;">20.3.1t Should read: "Technical Performance Measurement".</p> <p style="padding-left: 40px;">20.3.1u Should read: "Producibility and Manufacturing".</p> <p style="padding-left: 40px;">20.3.1v Should read: "Life Cycle Cost (CARD-Like)"</p> <p style="padding-left: 40px;">20.3.1w Replace "Quality Assurance Program" with "Mission Assurance".</p> <p style="padding-left: 40px;">20.3.1y Should read: "Training and Training Concepts".</p> <p style="padding-left: 40px;">20.3.1aa Should read: "Software Development Progress/Risks/Process".</p> <p style="padding-left: 40px;">20.3.1bb Add Interface Requirements Specification</p> <p style="padding-left: 40px;">20.3.2b Delete.</p> <p style="padding-left: 40px;">20.3.2c Delete.</p> <p style="padding-left: 40px;">20.3.2d Delete.</p> <p style="padding-left: 40px;">20.3.2f Should read: "Commercial and non-developmental items (CANDI)".</p> <p style="padding-left: 40px;">20.3.2g Delete</p> <p style="padding-left: 40px;">20.3.2k Delete</p> <p style="padding-left: 40px;">20.3.2l Delete</p> <p style="padding-left: 40px;">20.3.2m Delete</p> <p style="padding-left: 40px;">20.3.2o Delete.</p> <p style="padding-left: 40px;">20.3.2r Delete</p> <p style="padding-left: 40px;">20.3.2t Replace with M&S Plans and results</p> <p style="padding-left: 40px;">20.3.2u Replace with Software Prototyping Results.</p> <p style="padding-left: 40px;">20.3.7a Should read: "System Design Feasibility and System/Cost Affordability".</p> <p style="padding-left: 40px;">20.3.7d Delete.</p> <p style="padding-left: 40px;">20.3.7f Delete.</p> <p style="padding-left: 40px;">20.3.7g Delete.</p> <p style="padding-left: 40px;">20.3.7i Delete.</p> <p style="padding-left: 40px;">20.3.7j Delete.</p> <p style="padding-left: 40px;">20.3.7l Delete.</p> <p style="padding-left: 40px;">20.3.11c through f Delete.</p> <p style="padding-left: 40px;">20.3.11h Delete.</p> <p style="padding-left: 40px;">20.3.11j through l Delete.</p>			

20.3.12 Delete “nuclear” and “and laser hardening” 20.3.14.2 Delete.			
A025	System Trade Studies -Affordability -All other Government required Trade Studies -Contractor proposed	DI-MISC-80711A	ATP+5.5 months (I) O1+2.5 months (F) ATP+1.5 months (I) +5.5 months (F) TBS
Notes: 1. Contractor format acceptable 2. To support trade studies and SRR preparations a requirements TIM will be held to ensure contractor understanding of GPRD, MRD, CONOPS and other applicable requirements 3. Where studies are interrelated, the contractor is encouraged to conduct studies and present results in a fashion that allows an integrated consideration and decision process. 4. Results shall include a summary of the sensitivity of the results to changes in assumptions, conditions, methodology, etc. Results should characterize and quantify mission, operational, and programmatic (cost and schedule) benefits, impacts and risks as appropriate. 5. Government required trades include: - Affordability (cost driver trades) Identify the potential cost drivers (with impacts identified down to impacted subsystems as applicable) for the proposed GOES-R system and identify potential cost mitigation actions that could be used to improve system affordability. - Government Reference Architecture (GRA) Assessment Study should assess the space GRA versus other alternative architectures. In addition to the general trade study results identified above, the study should address developmental and operational flexibility, ability to accommodate payload schedule disconnects, and total system development risks such as multiple configurations and integration and test capacity issues as applicable. - Ground Segment Backup Locations NOAA intends to use the existing NOAA Satellite Operations Facility (NSOF) and Wallops Control and Data Acquisition Station (CDAS) as the primary facilities to support the Mission Management, Product Generation, and Product Distribution functions. NOAA would like to evaluate backup locations based on the following criteria: <ul style="list-style-type: none"> • Mission availability (e.g., geographic diversity) • Continuity of Operations • Communications availability/Cost • Facility cost • Visibility to all satellite locations • Transmit capability (X/S/L) Band • Concepts for operation of the primary/remote sites - Frequency Utilization NOAA recognizes limitations within the existing GOES satellite "L" band (1670-1695 MHz downlink) and "S" band (2025-2035 MHz uplink) Radio Frequency (RF) allocations relative to the GOES-R series, and its need for very high data rate transmission and broadcasting. To support GRB distribution in the L-band, the payload services currently in the 1692 MHz to 1695 MHz band are being shifted to the 1695 MHz to 1698 MHz band. The 1683 MHz to 1695 MHz bandwidth is being allocated to GRB. GFUL distribution options include X-band, C-band, and Ka-band transmissions, with various impacts to GOES-R users and other bandwidth users Identify and assess alternative GRB and GFUL implementation approaches. In addition to general study results identified above, describe system impacts, including satellite operational proximity and ground station location limitations, and the impacts of frequency utilization on satellite hardware selection (e.g. high power amplifier selection). - Data Link Modulation/Coding Selection Given the required data rates, bandwidth constraints and required BER/FER performance, identify and assess candidate modulation and coding options for the Sensor Data (SD) Link and the GRB/GFUL links. In addition to the general study results identified above, describe the advantages and disadvantages of the options including development and implementation issues (e.g., impact on GRB users) and technical risks			

- Data Distribution (GFUL and GRB)

With the improved GOES-R instruments, the available environmental data will grow by a factor of sixty. The user community has expressed interest in receiving the full GOES-R environmental data stream (GFUL). In consideration that GFUL distribution might not be feasible to all NOAA users, NOAA has defined a subset of the GFUL data stream; the GOES Re-Broadcast (GRB). The content of the GRB data stream should meet the need of most users and will be dependent on the design solution; i.e., technology, coverage, and cost. Evaluate candidate data distribution methods and recommend the data/product content of candidate solution(s).

- Launch Vehicles and Services (to include GFE and commercial)

NOAA would like to determine the type of procurement and certification of launch services best suited for GOES R. The trade study should include direct insertion vs. GEO transfer trajectory, launch vehicle parameter selection including launch vehicle faring dimensions and lift capability performance. Additionally, this trade should include various government furnished equipment options vs. various commercial options.

- Infrastructure Architecture and Interfaces

The NESDIS Infrastructure component of the GRA is composed of existing systems and facilities (e.g., NSOF) that provide services to the GOES-R system to meet specific MRD requirements. These systems include CLASS, NWS SEC, and the Merged Processing Center. NOAA needs to understand the architectural options for these interfaces and the applicable considerations.

The trade study should identify the potential alternatives for the GOES-R to support services interfaces including specification of the functions to be performed on each side of the interface, mission, operational, and programmatic benefits and the cost, schedule and risk issues associated with each.

- Instrument Management and Transition Options

NOAA is looking for transition strategies of existing instrument contract control from the Government to the prime system contractor. GOES-R instruments are at different stages of development and need to be placed under the fiduciary/managerial control of the system prime. NOAA needs a transition strategy to account for the different instrument types, individual vendors, and varying development phases.

The trade studies should identify and compare the range of transition and management alternatives in terms of technical, performance and programmatic benefits, impacts and risks.

- GN&C/INR Studies

The following are the guidance, navigation, and control (GN&C) trade studies that should be accomplished:

Orbit Determination

Perform a trade study of candidate orbit determination methods. Provide operational concepts, hardware and software requirements, steady state accuracy in both position and velocity, transient performance and the system impacts. Evaluate techniques to minimize/eliminate recovery time following maneuvers.

Orbit Control

Perform a trade study of orbit control which includes station keeping strategies, operational concepts, hardware and software requirements, and system impacts including the impact on orbit determination. Consider multi-satellite implications and techniques to minimize/eliminate outage due to stationkeeping. Evaluate liquid and electric propulsion methods. Perform an evaluation of trajectory designs and analyze fuel budgets.

Attitude Determination and Control

Perform a trade study of attitude determination which includes an evaluation of accuracy, cost, and risk for systems ranging from approx. 5 urad to 300 urad, 3-sigma. Analyze stability of rate estimates, latency of compensated rate signal, cost, and risk to include gyroscope specifications, Kalman filter performance, star tracker specifications, and optical bench thermal and mechanical stability. Provide a survey of domestic and foreign star tracker vendors. Evaluate techniques to minimize/eliminate outage due to momentum unloading and yaw flips. Provide a yaw steering strategy.

- Spacecraft Bus and Instrument Dynamic Interaction

Perform a trade study of dynamic interaction which includes an estimate of spacecraft-induced jitter with no instruments operating for Nadir and Solar instruments. Provide the spacecraft transfer functions of the instruments to themselves, instrument to other instruments, and instrument to rate signal. Provide the reaction wheel jitter specifications and identify if wheel isolation is required. Perform a survey of domestic and foreign wheel vendors including vibration as a function of wheel speed

and frequency. Integrate government provided ABI, HES and SIS reduced order instrument dynamic models into a spacecraft bus dynamic model. Identify critical instrument metrics (e.g. line of sight stability, error, rate, and accelerations at the instrument interface) for the earth and solar pointed instruments. Exercise the integrated dynamic model to evaluate the impact of spacecraft and instrument disturbances on the critical metrics. Include the effects of solar array drive approaches. Deliver time and frequency domain data corresponding to the instrument interface requirements (error, rate, and accelerations). Include a comparison of the various reaction wheel vendor provided jitter data on integrated model performance. Provide quantitative assessment of the current GIRD and UIID interface disturbance requirements and recommend changes to the GIRD and instrument UIIDs.

- Yaw Flip

Examine system level (including instruments) resource, cost and risk reduction to be gained if the spacecraft were to perform a twice-yearly yaw flip maneuver.

- Solar Array Configuration

The trade study include single vs. dual wing solar array configuration for meeting a range of HES and ABI radiator backloading requirements for the dual array configuration. The range of backloading will be approximately analogous to -Y HES radiators without direct solar with 0%, 2.5% 5% and 10% space-view obstruction. Report any spacecraft design break points within this range. This trade should be coordinated with the Yaw Flip trade study.

- Magnetometer Accommodation

Perform a trade study that weighs the benefits of implementing a single magnetometer vs. two magnetometers. As a minimum, life requirements and calibration requirements shall be considered. Determine the impact of performing multiple on orbit calibrations, in addition to the required calibration immediately after launch. Provide their approach for the on orbit calibration of the magnetometer. Describe supporting approach to magnetic control including key elements of magnetic control plan.

- Baseline Instrument Accommodation

Assess all instrument resource allocations and interface requirements defined in the General Interface Requirement Document (GIRD) and the ABI, HES, GLM, SIS, and SEISS Unique Instrument Interface Requirements Documents (UIIDs). Recommend changes.

- Coronagraph Accommodation

Perform a trade study evaluating the accommodation of the Solar Coronagraph (SCOR) to the SIS. Consider two alternative configurations, one with the SXI of the SIS replaced with the SCOR, and one with the SCOR added to the SIS suite. Perform a trade study on the Field of View of the coronagraph. Assess the impacts resulting in the additional requirement of a clear field of view of the Solar Coronagraph for both alternatives.

- Solar Instrument Pointing and Stability

Perform a trade study on the pointing stability of the solar pointing platform in the North-South direction. Document current spacecraft capabilities to meet the requirements in GIRD 1118. Assess impacts resulting in improving the peak-to-peak stability performance from 100 arc seconds to 50 arc seconds and to 4 arc seconds. Perform a trade on pointing accuracy of the solar pointing platform. Document current capabilities to meet the requirements in GIRD 1116. Assess the impacts resulting in improving the pointing accuracy to 2.3 arc minutes in both axes and to 1 arc minute in both axes.

- Automated Instrument Scheduling

Perform a trade study to utilize spacecraft and instrument data to perform “smart tasking” of on-board science payloads. Investigate the integration of sensor fusion and “tip off” techniques to dynamically task the ABI, HES and/or other instruments.

- Operations and Support Approach

Perform a trade study to identify and assess approaches to improve the system performance and efficiency of GOES-R operations and support and reduce total life cycle cost. Efficiency improvements considered as part of the trade study should be balanced with satellite health and safety considerations and total system availability. Trade study approaches should consider increased automation where appropriate.

- Increased Operational Availability

Identify and assess techniques which eliminate or greatly reduce the time that the level-1b data products are out of specification as the result of spacecraft maneuvers. Spacecraft maneuvers include: momentum management, yaw flip and stationkeeping. Describe advanced concepts that may be used to increase operational availability. Present analysis and/or simulation results that demonstrate the feasibility and increased availability of each approach. Identify programmatic and risk impacts associated with each approach.

A026	Design Review Data Package (IPDR)	DI-ILSC-81335T	IPDR-1 month
Notes:			

<p>1. The Design Review Data Package (DRDP) is required by the government to permit adequate preparation for each design review prior to the review meeting</p> <p>2. MIL-STD-1521B Appendix C and D (tailored) are for compliance. Contractor format and additional suggestions for tailoring acceptable.</p> <p>3. IPDR shall address both Software Requirements Review and Preliminary Design Review</p> <p>4. MIL-STD-1521B tailoring:</p> <p>30.1 Delete second and third sentences</p> <p>30.1 Delete in fourth sentence “by demonstrating...Concept Description (OCD)”</p> <p>30.2 Delete j and k</p> <p>40.1 Delete in second sentence “after...available, but”</p> <p>40.1 Delete third sentence through end of paragraph</p> <p>40.2.1t Delete</p> <p>40.2.1v Delete</p> <p>40.2.1ab Delete</p> <p>40.2.2f Delete</p> <p>40.2.2n Replace with “Operations and support plans”</p> <p>40.2.3 Replace with “Summarize support equipment requirements and identify source as Government or contractor furnished. Describe plans for acquiring maintaining and use including sparing requirements as required. Provide schedule need dates and any support equipment that will be on or close to a critical path.”</p>			
A027	Models - Finite Element	Contractor Format	SCR-1 month (I) IPDR-1 month (F)
<p>Notes:</p> <p>1. Finite Element Model</p> <p>This deliverable shall include a medium-to-high fidelity structural math model of the complete satellite. The finite element model shall be MSC/NASTRAN compatible. This deliverable shall include a model report documenting the following information:</p> <ul style="list-style-type: none"> a) Model mass properties b) Boundary conditions c) Figures showing the components modeled d) A summary of output results including modal frequencies, deflections and critical stresses e) Undeformed and deformed plots of the FEM f) Identification of critical instrument metrics (e.g., acceleration levels at the instrument interface, line of sight stability, wave front error) for the earth and solar pointed instruments g) Results of exercising the integrated dynamic model to evaluate the impact of spacecraft and instrument disturbances on the critical instrument metrics h) Effects of reaction wheel vendor supplied jitter data on integrated model performance and instrument metrics. i) Effects of solar array drive on integrated model performance and instrument metrics. <p>The deliverable shall include a thermal distortion model and distortion profile results for the bench or mounting interface.</p>			
A028	Pre Planned Product Improvement (P3I) Plan	Contractor Format	O1+5 months (F)
<p>Notes:</p> <p>1. Plan shall address:</p> <ul style="list-style-type: none"> - P3I support provisions in proposed system - Potential approaches for evolving system to accommodate P3I capabilities identified in MRD 			
A029	Minutes of Meetings	DI-ADMN-81505	One week after meeting
<p>Notes:</p> <p>1. Shall specifically identify</p> <ul style="list-style-type: none"> a. Topics addressed with summary of key points and any conclusions or recommendations b. Attendee List c. Government direction d. Any GFI/GFE requests e. Actions with source, responsible party, recipient, and due date specified 			
A030	Presentation Materials	DI-ADMN-81373	Two days after presentation
Notes:			
A031	Final Report	Contractor Format	O2 + 6 Months
Notes:			

1. Summary report not to exceed 125 pages (including executive summary which should not exceed 25 pages) describing PDRR accomplishments, system concept, summary cost and schedule, opscon, system performance, principal risks and mitigation, and outstanding actions and issues for IPDR option and A&O.
2. Where material is covered in detail in other submitted material a brief summary statement with a reference to the other material is acceptable.
3. This document will be in the form of a written narrative.

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| | <ul style="list-style-type: none">• (P) = preliminary = topical outline, (I) = initial, (U) = update, (F) = final• ATP = Base period Authority to Proceed – assumed to be 15 Sep 05• O1 – Option 1 ATP – assumed to be about 15 Mar 06• O2 – Option 2 ATP – assumed to be about 15 Sep 06 |
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ATTACHMENT 1

STATEMENT OF OBJECTIVES (SOO) GEOSTATIONARY OPERATIONAL ENVIRONMENTAL SATELLITE SERIES R (GOES-R)

March 22, 2005

1.0 Introduction

1.1 The GOES-R System is a National Oceanic and Atmospheric Administration (NOAA) system being acquired by the NOAA's National Environmental Satellite, Data, and Information Service (NESDIS), Geostationary Operational Environmental Satellite R (GOES-R) Program Office (GPO).

1.2 NOAA has funded the National Aeronautics and Space Administration (NASA) Goddard Space Flight Center (GSFC) to award and administer the GOES-R instrument development contracts. Subsequent to the beginning of the System Acquisition and Operations (A&O) phase, these instrument contracts will transition to the A&O System Prime Contractor.

1.3 This document provides the objectives for the work to be performed during the Program Definition and Risk Reduction (PDRR) Phase of the GOES-R system. Contractor responses to the SOO shall be reflected in the Integrated Master Plan (IMP), the Integrated Master Schedule (IMS), Contract Data Requirements List (CDRL) and the proposal to be delivered in response to the PDRR solicitation.

2.0 Background

2.1 The primary missions of NOAA are to understand and predict changes in the Earth's environment, and conserve and manage coastal and marine resources to meet our Nation's economic, social, and environmental needs. The goal of the GOES-R program is to procure an end-to-end system that will provide a high quality, uninterrupted flow of environmental data to its users. Improvements planned for the GOES-R series of satellites are required to support NOAA's strategic mission goals to:

- protect, restore, and manage the use of coastal and ocean resources through an ecosystem approach to management;
- understand climate variability and change to enhance society's ability to plan and respond;
- serve society's needs for weather and water information;
- support the Nation's commerce with information for safe, efficient and environmentally sound transportation; and
- provide critical support for NOAA'S mission .

2.2 This environmental data is acquired, processed, and distributed on varying geographic scales (hemispheric, regional and local) within a variety of time periods (minutes to days). GOES data includes hemispheric, CONUS, and mesoscale imagery and soundings; cloud and

precipitation parameters; atmospheric profiles of temperature, moisture, wind, aerosols and ozone; surface conditions concerning ice, snow and vegetation; ocean parameters of sea temperature, color and state; solar conditions and in-situ space environments.

3.0 System Objectives

3.1 The GOES-R system shall meet the requirements of the GOES-R Mission Requirements Document (MRD). The GOES-R Concept of Operations (CONOPS) is intended to provide an operational context for the GOES-R system. The contractor shall develop a system concept that is compliant with the MRD and contractor's CONOPS. These are evolving documents and will be tailored as the system design matures. The MRD and other related documents are posted at <http://osd.goes.noaa.gov/index.php>.

4.0 Program Objectives

The GOES-R Program Office expects the System Prime Contractor to achieve the following program objectives throughout the PDRR and A&O Phase:

4.1 Study, design, develop, demonstrate, document, test, produce, deploy, maintain, and support a GOES-R system that achieves the System Objectives referenced above and meets the requirements specified in the MRD and its applicable documents.

4.2 Implement disciplined and comprehensive program management processes. These processes should utilize metrics with associated contingency plans, and report against the Government-approved cost, schedule, performance, and risk baseline. All metrics should be calculated in a timely manner so that contingencies can be executed to effectively reduce cost, performance or risk impacts of adverse situations. This management approach should support flexible and innovative management of program cost, schedule, performance, risks, contracts and subcontracts, and data to deliver an effective and affordable system.

4.3. Implement a seamless contractor program structure with clearly defined, jointly developed roles and responsibilities that supports the shared Government/Contractor responsibility for program success. This structure should include, but not be limited to:

4.3.1 Prime contractor-led Integrated Product Teams (IPTs);

4.3.2 Participation in Government-led working groups.

4.4 Implement acquisition, design, development, test, integration and operations processes to optimize cost, performance and risk; while rewarding the achievement of a best value solution to the Government's mission requirements. Demonstrate that these processes are well-defined and provide metrics on the performance of these processes.

4.5 Establish a proactive partnership with the Government allowing analyses and alternate solutions to satisfy cost and performance requirements, breaking down common barriers to Government and industry communications and organizational interfaces. This partnership should apply innovative business approaches compatible with the contractor's and Government's programmatic constraints.

4.6 Utilize disciplined systems engineering and management processes to achieve the System Objectives.

4.7 Employ robust system engineering and analytical processes for conducting trade studies to design a system that optimizes performance and affordability.

4.8 Demonstrate appropriate levels of technical and design maturity at program decision points including the System Requirements Review (SRR), System Concept Review (SCR), Interim Preliminary Design Review (IPDR), Preliminary Design Review (PDR), and Critical Design Review (CDR) milestones.

4.9 Employ comprehensive risk management to identify, analyze, plan, track, control, communicate and document significant technology, performance, cost, schedule, integration, producibility, and other risks. Participate in and leverage industry, academia and Government-sponsored risk mitigation activities, as appropriate.

4.10 Define configuration management functions and processes to identify, control, audit and account for configured items.

4.11 Define, document, coordinate, manage, and verify all interface/integration requirements internal to the GOES-R system. Identify, support development, document, coordinate, and verify all interface/integration requirements from the GOES-R system to external systems. Provide traceability of all interfaces to the MRD, CONOPS, GIRD, UIIDs, IRDs, and MAR.

4.12 Identify, plan for, manage and implement the low-risk and cost-effective insertion of initial and incremental emerging technologies that provide added utility throughout the system life cycle.

4.13 Plan and implement a robust and disciplined component, sub-system, and system-level test and evaluation program to validate that the delivered system will meet government defined mission and to verify the system design and implementation for each major review.

4.14 Develop, document, and implement effective software development plans, processes and capabilities necessary to achieve program objectives.

4.15 Develop, document, and implement effective hardware development and production plans and processes necessary to achieve program objectives.

4.16 Develop, document and implement the mechanical and electronic Ground Support Equipment (GSE) necessary to achieve program objectives.

4.17 Establish an Environmental, System Safety, and Health program in compliance with applicable rules and regulations.

4.18 Support the development and implementation of a system protection and information assurance program to protect critical program information and critical system resources.

4.19 Ensure development and evolution of a supportable system design and implement an affordable, comprehensive integrated logistics and training support capability necessary to support program objectives.

4.20 Demonstrate how orbital debris generation will be minimized in accordance with existing U.S. Government policies.

4.21 Develop and implement an algorithm development environment which will provide for collaborative testing, tracking, version control and documentation.

4.22 Provide system simulation capabilities for product validation, interoperability testing, flight operations support and personnel training.

4.23 Comply with all federal, state and local laws and regulations (and international laws and regulations, where appropriate).

5.0 Program Definition and Risk Reduction (PDRR) Phase Objectives

The System Prime Contractor shall achieve the following PDRR objectives within a framework that meets the System and Program Objectives listed above:

5.1 Architect a solution that optimally satisfies the MRD as well as provides a best value for entry into the Acquisition and Operations (A&O) phase.

5.2 Perform trade studies that support the definition of a GOES-R architecture that balances performance, affordability, risk, and schedule. Trades should include, but not be limited to:

- 5.2.1 Affordability
- 5.2.2 Government Reference Architecture (GRA) Assessment
- 5.2.3 Ground Segment Backup Locations
- 5.2.4 Frequency Utilization
- 5.2.5 Data Link Modulation/Coding Selection
- 5.2.6 Data Distribution
- 5.2.7 Launch Vehicles and Services
- 5.2.8 Infrastructure Architecture and Interfaces
- 5.2.9 Instrument Management and Transition Options
- 5.2.10 Guidance Navigation and Control /Image Navigation and Registration
- 5.2.11 Spacecraft Bus and Instrument Dynamic Interaction
- 5.2.12 Yaw Flip
- 5.2.13 Solar Array Configuration
- 5.2.14 Magnetometer Accommodation
- 5.2.15 Baseline Instrument Accommodation
- 5.2.16 Coronagraph Accommodation
- 5.2.17 Solar Instrument Pointing and Stability
- 5.2.18 Automated Instrument Scheduling
- 5.2.19 Operations and Support Approach
- 5.2.20 Increased Operational Availability

5.3 Define a Software Architecture for all space, ground, and user interface software configuration items.

5.4 Develop a software development plan.

5.5 Plan for low risk and effective transition of instrument activities currently being managed by government contracts to prime contractor management.

5.6 Perform system performance and affordability trade studies, requirements analysis (including interfaces), program planning, and all other activities necessary for completion of a successful SRR, SCR and IPDR for a system that optimally satisfies System and Program Objectives .

5.7 Provide analysis, modeling and simulation capabilities to support trade study development, incremental refinement of the CONOPS, MRD, and GPRD, and support of end-to-end performance analysis.

5.8 Develop a plan for system simulation requirements for product validation, interoperability testing, flight operations support and personnel training.

5.9 Develop and evolve life cycle cost (LCC) estimates and a basis of estimate for the GOES-R system to support PDRR Phase affordability trades, A&O cost estimates, and a Government Independent Cost Assessment.

5.10 Support the GPO preparation for KDP-C/D by providing information, documentation, and support necessary for KDP-C/D approval.

5.11 Identify risks in critical areas, develop risk mitigation plans, and demonstrate how risk will be mitigated to a level that delivers mission performance and permits or extends capability for GOES-R system and segment threshold performance within LCC and schedule constraints. Specify metrics for measuring each identified risk And criteria for enacting associated contingency plans.

5.12 Develop an integrated logistics support approach that integrates logistics analyses into the system design.

5.13 Develop a test and evaluation approach encompassing both developmental and operational tests that is consistent with Mission Assurance Requirements and includes instruments and instrument GSE to the fullest extent.

5.14 Provide a plan for an algorithm development approach which will provide for the collaborative (i.e. government and contractor) testing, tracking, version control and documentation of scientific algorithms.

5.15 Assist the Government as it finalizes the GPRD, MRD, CONOPS, and other documents in preparation for the A&O phase.

5.16 Assist the Government in identifying Government property or resources that a contractor will need in the A&O phase.

5.17 Assist the Government in the identification, definition and development of all plans, processes and activities necessary for entry into the A&O phase.